CANON

T 90

SERVICE MANUAL

EXPLODED VIEWS

AND

PARTS LIST

CANON INC. JAPAN

CANON T90 (C12-1902-000)

Preliminary Instructions

- 1. Electronic and written materials for the T90 have been integrated to make them even more valuable training aids. These instructions are designed to be used as a textbook with the video tape. Adjustments are explained as the stripdown progresses, rather than in a separate section.
- 2. Units and assemblies have been favored over individual parts in establishing the spare parts list If unlisted individual parts are required, replace the unit or assembly. After a year of field experience, we will review the spare parts policy.
- 3. Accuracy of shutter speed and EV testing devices previously supplied by Camera Service are only guaranteed to 1/1000 second. Since this camera has 1/4000 second maximum shutter speed, care is necessary. We recommend using the new model tester (S-2201) which is guaranteed through 1/4000 second, but since this will not be possible in all cases, we have included alternate instructions for using the Multi-Shutter Tester EF-500 and an oscilloscope. See page 4. Shutter speeds faster than 1/1000 should not be used to check film plane exposure with the EF-500 either. If 1/4000 is used, the EF-500 will indicate overexposure when the exposure is actually correct.
- 4. This is the first Canon SLR to incorporate TTL-OTF flash metering. Because this system measures light reflected off of the film surface, a special film plane sensor that simulates the film surface must be used on the EF-500. This sensor is called the DIR-201 and it can only be used on units which are equipped with the necessary circuits for TTL-OTF flash metering. This modification was originally made for Olympus cameras but has recently been included on all EF-500s. If you have an older model, contact your local Kyoritsu agent for modification information.

- 5. This model's PMS shutter is different from the EMAS shutter used in the other T series cameras. Both curtains can be adjusted with the shutter mounted in the body so a special shutter mount for adjustment is not necessary. The curtain speeds and X sync can be adjusted with the shutter mounted in the body but operating independently. Shutter speed can only be adjusted after the electrical assembly is complete. The shutter is more expensive, so shutter repair, rather than replacement is recommended.
- 6. If power is applied directly to the camera with the battery case removed, solder a lead from the reset pad on the DC/DC convertor and connect it to the ground side of the DC power supply before power is applied to the camera. After power is applied, remove the lead from the ground. If this is not done the camera may not operate.

7. Color Code

To save space on drawings, it has been necessary to uses a color code. The code is:

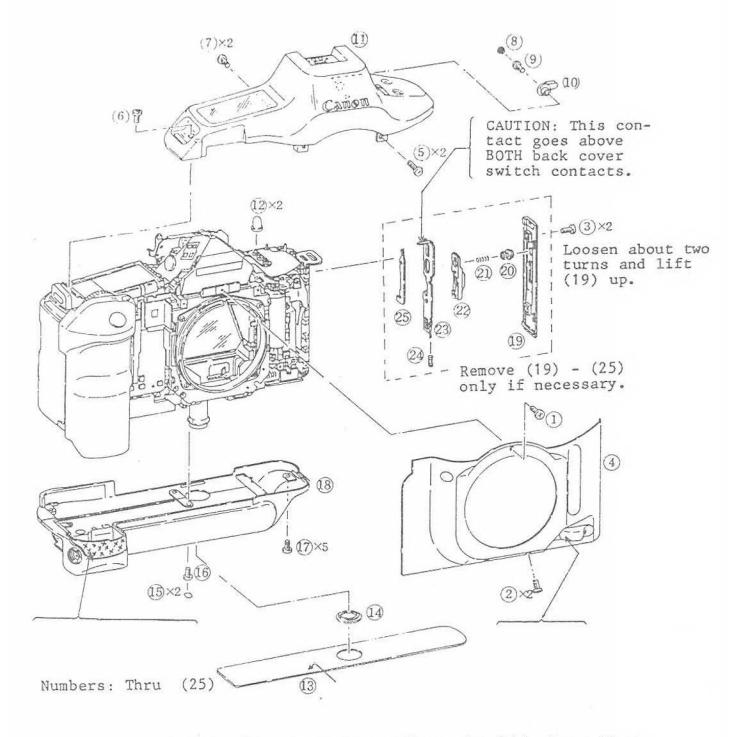
Color	Code	Color	Code	Color	Code
Black	BL	Blue	BU	Gold	GL
Brown	BR	Violet	V	Tan	Т
Red	R	Purple	PR	Pink	PK
Orange	0	Gray	GY	Sky Blue	SB
Yellow	Y	White	W	Yellowish Green	YG
Green	GN	Silver	S		

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I. Front & Top Covers, Battery Case Removal



Disassembly to the extent shown allows the following adjustments to be performed.

Index No.	Adjustment (Page No.)
4	Shutter Speed (3,4); Flash Aperture Info (5); Flash FELK, TTL intensity (6); Winding Inhibit V (6)
11	Film Leader Adj. (7); P meter pattern position (8) Offset Adj (9); Aperture Accuracy (10); Gain & Level (11, 12): Finder LCD (11)
18	Curtain TT (2,3) (2nd Ctn- remove Ext LCD screws als

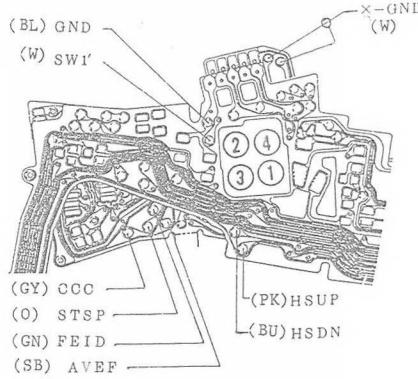
ASSEMBLY & DISASSEMBLY NOTES

1. Front Cover (4)

- 1.1 To remove the front cover (4), lift the hook cover (19).
- 1.2 When reassembling, slip the left (grip) end of the cover in first.

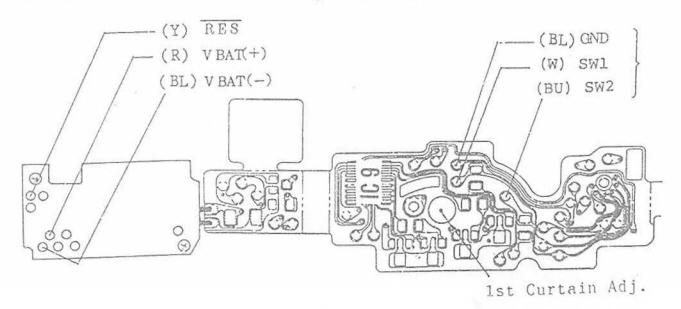
2. Top Cover (11)

Nine lead wires (one is shielded) connect the main flex to the top cover.

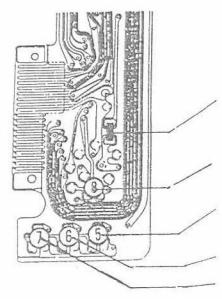


3. Battery Case (18)

Six lead wires connect the motor flex and DC/DC convertor with the remote switch and battery contact.



ADJUSTMENTS POSSIBLE AFTER REMOVING FRONT COVER



R10: Winding Inhibit Voltage Adj. (Necessary when IC4 changed)

VR8: 1/4000 Sec. Shutter Speed Adj.

VR5: Flash Aperture Information (Use flash with manual f/No set)

VR6: Flash FLEK Intensity

Use Speedlite 300TL

VR7: Flash TTL Intensity

Shutter Speed Adjustments

Adjust if IC4, the main flex, or shutter unit is replaced. Use test equipment capable of measuring 1/4000 sec. (EF-500 can only accuractly measure 1/1000 sec.)

Standards:

Curtain Travel Time

2.7 ±0.2ms (EF-500 O.K.)(10.5mm slits)

Shutter Speeds

0.300ms Slow (+) limit 1/4000 sec,: 0.244ms +0.3EV

0.198ms Fast (-) limit

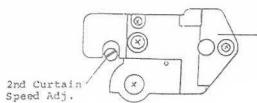
Flash (X) Sync.

A Line: Over 0.2ms B Line: Over 1.6ms

(See pg. 5 for details)

Adjust VR8 so 1/4000 is as near 0.244ms as possible, and check the other speeds. See the Shutter Speed/EV chart for tolerances. The 1st curtain worm gear adjustment is possible after the battery case is removed. Adjustment is like the EMAS shutter. (To adjust the 2nd curtain travel time, the external LCD must also be displaced, and the main flex lifted slightly. This adjustment is also like the EMAS.)

X sync is adjusted with the eccentric screw beside the lens mount.

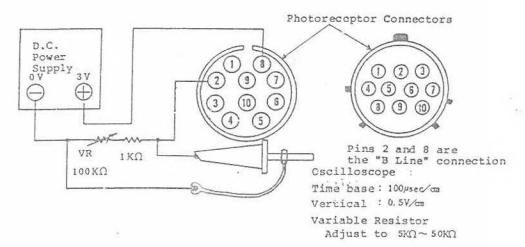


-Signal Base Unit

ALTERNATE ADJUSTMENTS

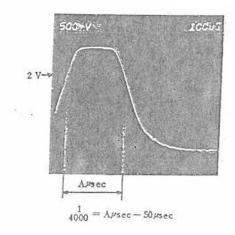
1/4000 sec. Adjustment with Oscilloscope

This adjustment uses the photosensor of the EF-500 connected to an oscilloscope to check the 1/4000 sec. shutter speed. Before this adjustment, adjust the curtain travel time with the EF-500.



Procedure

- Connect the EF-500 photosensor to the oscilloscope as shown.
- Set the EF500 to EV12 and K14.03. Put the photosensor in the film aperture.
- 3. Set the camera to a long shutter speed or bulb, and release the shutter. While the shutter is open, adjust the variable resistor so the line on the oscilloscope is on 0.5V.
- 4. Reset the EF500 to EV15 and the camera to a 4000th, and release the shutter.



- 5. Read the width of the waveform at 2V. It should be 294 us.
- 6. Adjust VR8 so the width at 2V is as close as possible to 294us.

Note Using the EF-500 to adjust 1/4000 sec. will result in a slow shutter speed (about 0.37ms). The EF-500 can be used by taking an average of several good cameras. Another possibility is adjusting at 1/1000sec. as a midpoint, but since the accuracy of the EF-500 is +0.1EV, this would allow a +0.4EV at 1/4000 sec. even if the 1/1000 sec. adjustment was perfect (0.98ms). Because of the possible error, we do not recommend this method.

 Flash Aperture Information (AVEF) Adjust when IC4 or main flex is changed.

Standard: Selected Aperture +0.4 f/stops

Tools: Standard tool 50mm f/1.4; Speedlite with manual aper-

ture setting (277T, A-series Speedlite).

Adjustment:

 Adjust VR5 until the f/stop displayed in the viewfinder matches the one set on the speedlite.

 Release the shutter and check that the lens stops down to the displayed aperture +0.4 f/stops.

ALTERNATE ADJUSTMENTS

If an approiate speedlite is not available, use a hot shoe (foot) from an A or T series flash and,

1. Read and record the VC voltage at the CCC terminal.

2. Apply VC to the AVEF terminal to set f/4.0.

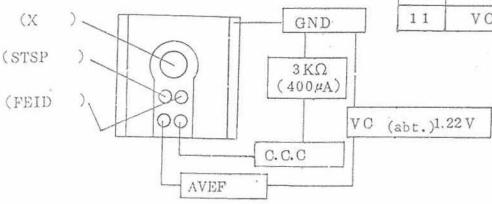
3. Install a 3KOhm resistor between CCC and ground to set the flash mode (1/250).

4. Turn SW1 on and adjust VR5 so f/4 appears in the finder.

I (μA)	Mode
0	A E
250	1st Cur. sync (non-ded.)
400	1st Cur. sync (dedicated)
800	2nd Cur. sync (dedicated)

AYDI	voltage
F. Na	AVEF V
1.4	VC+3/16 VC
2.0	V C + 2/16 V C
2.8	VC+1/16 VC
4.0	VC
5.6	V C - 1/16 V C
8.0	V C-2/16 V C
11	V C - 3/16 V C

AVEF Voltage



To check X sync, wire as above and set shutter speed priority (TV). Connect the sync to the shutter tester. The tester should read:

Flash (X) Sync.

A Line: Over 0.2ms B Line: Over 1.6ms

3.& 4. Flash FELK & TTL Intensity Adjustments Adjust if main flex is changed.

Standard: +0.7+0.5

Tools: Speedlite 300TL, EF-500 with DIR-201 photoreceptor,

18% gray card (2m X 1m), FD 50mm f/1.4 lens.

Adjustment:

1. Lower the ambient light to EV6 or less, and set the EF-500 to the DIR-201 mode and K=12.5.

 Point the camera directly at the gray card at a distance of two meters.

Adjustment:

FELK

TTL

3. Equipment Settings:

Shutter Speed

1/250

Aperture f/5.6(Stop-down mode) f/5.6(Manual mode)

ISO

100

Adjustment

VR6

VR7

4. Set flash to 35mm and mode to:

FEL Mode

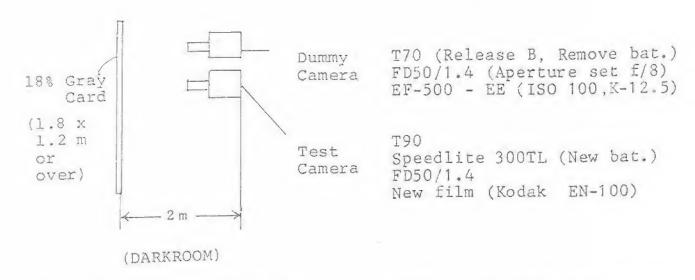
TTL Program Mode

- 5. Put the EF-500 photosensor in the film aperture, press the spot button, and after the preflash, release the shutter.
- 6. Adjust until the EF-500 reading is within ± 0.5 f/stop of the standard, with the approiate variable resistor.

ALTERNATE ADJUSTMENTS

If your EF-500 is not modified for TTL-OTF Flash, a second camera is used to measure the film plane illumination. Since it is practically impossible to fire two cameras at the same time, this procedure is performed in a darkroom with the second camera on bulb. The cameras must be fitted with identical lenses working at the same aperture.

1. Set up the equipment as shown in the figure.



- Release the shutter on the test camera and read the EF-500 reading from the dummy camera. Standards are the same as for the normal procedure.
- If the 18% gray card reflector is not available, make an average of several cameras to establish the center values.

Note: The maximum film reflectance variation from the representative film is 0.7EV.

Note: See the EF-500 instructions for information concerning the DIR-201 photoreceptor for the EF-500.

 Winding Inhibit Voltage Adjustment Adjust if IC4 has been replaced.

Standard: 3.6+0.2V ($R_{BAT} = 1/2V_{BAT}$)

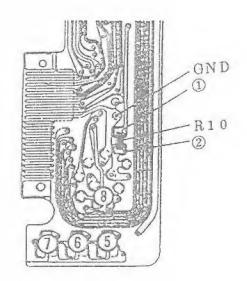
Tools: Voltmeter

Adjustment:

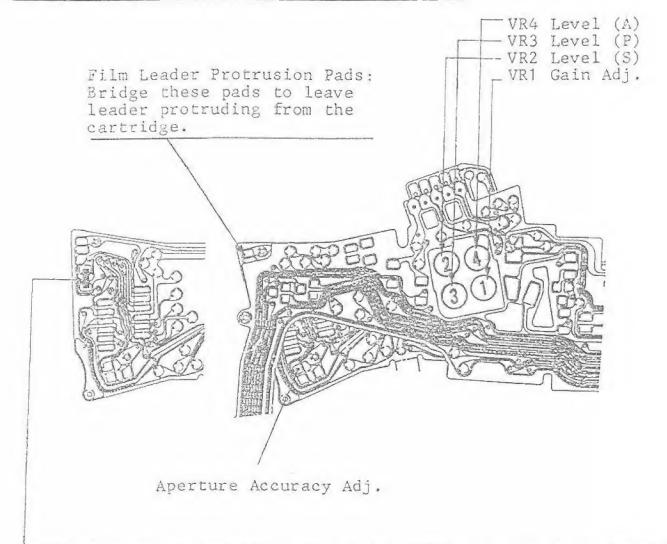
 Measure and record as VBAT the voltage from (2) to GND.

 Press the battery check, measure and record as RBAT the voltage from (1) to GND.

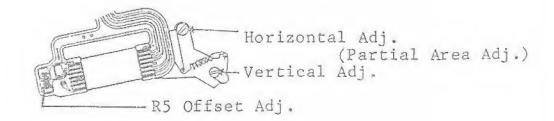
3. Change R10 so $R_{\rm BAT} = 1/2 V_{\rm BAT}$.



ADJUSTMENTS POSSIBLE AFTER REMOVING TOP COVER



└R13 Viewfinder LCD Adj. (check by lifting upper flex slightly)



6. Film Leader Modification (Service Action)

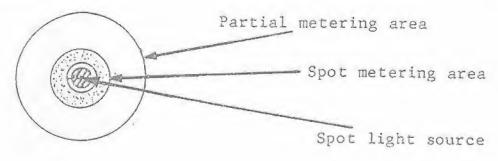
If a user prefers that the film leader not rewind completely into the cartridge, bridge the two pads.

7. Partial Metering Area Alignment
Perform this alignment if the eyepiece shutter, IC1, or the
main flex has been changed.

Tools: EV Tester (EF-500), FD 50mm f/1.4 lens, point light source plate (black, at least 12 X 18cm, with a 12mm hole in the middle.

Adjustment:

- 1. Place the point-source plate over the light source on the EF-500.
- 2. Set the metering area to partial (P), the mode to Program (or AV), the lens to f/5.6, and activate the stop-down slide. (Setting the lens to f/5.6 emphasises the difference between the dead spot in the center of the photocell and the sensitive area. This simplifies the alignment,)
- Square the camera with the light source at the closest focusing distance of the camera. Set the lens focusing ring to the closest distance also.
- 4. Center the focusing aid on the source and read the shutter speed.
- Release SW1 and move the focusing aid off-center. Push SW1 again and if the shutter speed drops, the alignment is not correct.
- Adjust so the light source spot falls withing the microprism circle
- 7. Adjustments are indicated on page 8. (The T70 check can also be used.)



190RG10

8. Spot Metering Area Alignment
Adjust if mirror unit has been changed. (Only vertical adjustment is possible. Horizontial is determined by parts.)
The spot flex, IC2 and fresnel lens are supplied as a preadjusted unit, so adjustment is only necessary if mirror unit
is changed. Set the sub-mirror eccentric as set in the removed
mirror unit and there is almost no problem.

Tools: Same as partial adj., plus New F-1 shutter adjustment spanner (CY9-6136-000)].

Adjustment:

- After adjusting the main mirror angle, assemble the camera into the operational condition. (The adjustment can be performed with the camera completely assembled).
- 2. Place the point-source plate over the screen on the EF-500.
- 3. Set the metering area to spot (S), the mode to Program, the lens to f/5.6, and set the stop-lown slide. (Setting the lens to f/5.6 makes the metering spot very nearly round.)
- 4. Square the camera with the light source at the closest focusing distance of the lens. Set the lens focusing ring to the closest distance also.
- 5. Center the focusing aid on the point source and read the shutter speed.
- 6. Move the focusing aid off-center vertically. The upper and lower off-center readings should be the same (within 1EV).
- 7. Adjust the sub-mirror eccentric stopper through the film aperture (with the shutter open at "B").
- 8. The main mirror angle has a greater effect on the metering area than the sub mirror, and IC2 and the spot fresnel have a greater effect than either mirror.
- Offset Adjustment Perform this adjustment if ICi is replaced.

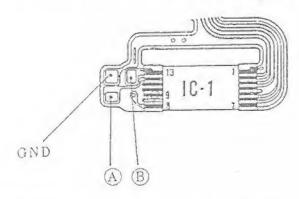
Standard: 0+2mV

Tools: Voltmeter

Adjustment:

1. Short MOS IN (p 9) to MOS OUT (p 7), and check the voltage at TP (p 8).

2. If the voltage is greater than $\pm 2mV$, install a 100K 0hm resistor from either A or B to ground and adjust the resistor voltage at TP is less than 2mV. Install a fixed resister of the value determined by the variable.



Note: The spot metering IC2 is a factory-adjusted part of the spot flex, so offset adjustment is not required.

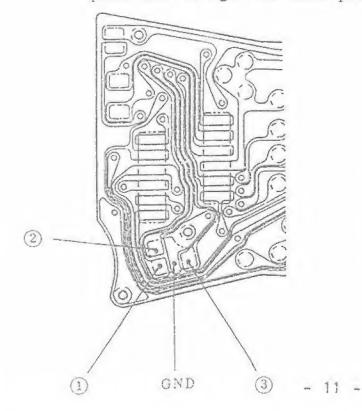
10. Aperture Accuracy
Perform this adjustment if AE Unit or main flex is replaced.

Standard: $f/5.6 \pm 0.3f/stop$

Tools: Standard Tool Lens 50mm f/1.4

Adjustment:

- 1. Set the camera in the AV mode at f/5.6. Repeatedly release the shutter and check the aperture set on the lens.
- 2. If necessary, bridge the appropriate pads as shown by the table. (When replacing the main flex, note the bridged pads and bridge the same pads on the new main flex.)



			Correctio	n
1	2	3	1	
			+ 3/8	
		0	- 2/8	
	0		+ 1/8	
	0	0	0	
0			- 1/8	
0		0	- 2/8	
0	0		- 3/8	
0	0	0	- 4/8	

O: Indicates grounded pad

11. Level and Gain Adjustment
Perform this adjustment if IC4 or the main flex is replaced.

Standard: 0+0.4F

Tools: EF-500, AE Standard Tool Lens FD50mm f/1.4, Top cover modified for adjustments (access holes for VR1 - VR4).

Aperture accuracy must be adjusted before this adjustment. Perform in order, level and then gain.
If the AE Tool lens is not available, see section 11.A.

11.1 Level Adjustment

- 1. Set the EF-100 to EV12, K=12.5, and ISO 100, and the camera to 1/125, Spot metering and ISO 100.
- Adjust the level variable resistors so the tool lens pointer stops at f/5.6.
 Spot- VR2, Partial- VR3, Average- VR4

11.2 Gain Adjustment

- 1. Set the EV-500 light source to EV6, the camera to partial metering and 1/2 sec shutter.
- 2. Adjust VR1 so ther tool lens pointer stops at f/5.6.
- 3. After adjusting both level and gain, check exposure accuracy at EV6, 9, 12, and 15.
- 11.A. Level and Gain Adjustment (without Tool Lens)
 (This adjustment uses the outputs of AR1 and AR2 rather than
 the tool lens pointer position to make the adjustment. The
 procedure is the same.)

Procedure

 Prepare the circuit as shown and install the temporary top cover.

 Turn SW1 on and watch the viewfinder LCD while making the adjustment.

3. Change the meterning mode Desolder by shorting the bottom data back terminal to the film plane ground pin as necessary.

4. In the shutter speed indication, the right 2 digits indicate the output of AR-1 and the left 2 AR-2. GND OND Ath pad from bottom is El

(Instal jumper)

5. As the data back ground (step 3) is opened and closed, the aperture digits indicate the three metering modes, 03(BV-Spot), 02(BV-Partial), 01(BV-Average), then 00(VC), 07(BC), 05(AV EF), 05(EFpre), 04(EFothers) and back to 03.

6. For example:

CE ** 01 A B C

A: AR1 output B: AR2 output C: Average mode

This shows that the EV12 adjustment of AR1 is correct.
**: AR2 output is not important at EV12.

- 7. At EV12 the readings should be: D2 in 03 mode, D0 in 02, and CE in 01 mode.
- 8. Gain adjustment, at EV6 in partial mode, should give a reading of :

** 68 02 A B C

**: AR1 output is not important at EV6.

		ARI		AR2				
EV	(01)	(02)	(03)	(8)	(02)	(S ₃)		
15	9F	AO	A2					
14	ĀĒ	ВО	B2					
13	BE	CO	C2					
0	CE	DO	D2					
11	DE	EO	E2					
10	EE	FO	F2	26	28	2A		
9				36	38	3A		
8				46	48	4A		
7				56	58	5A		
6	.			66	68	6A		
5				76	78	7A		
4				86	88	8A		

Notes: At low brightnesses, AR1 low output is indicated by "FF", and at high brightnesses AR2 output is high and not usable.

AD output of AR1 and AR2 is a 16 bit per EV signal.

12. Viewfinder LCD Adjustment
Perform this adjustment if IC4 is replaced.

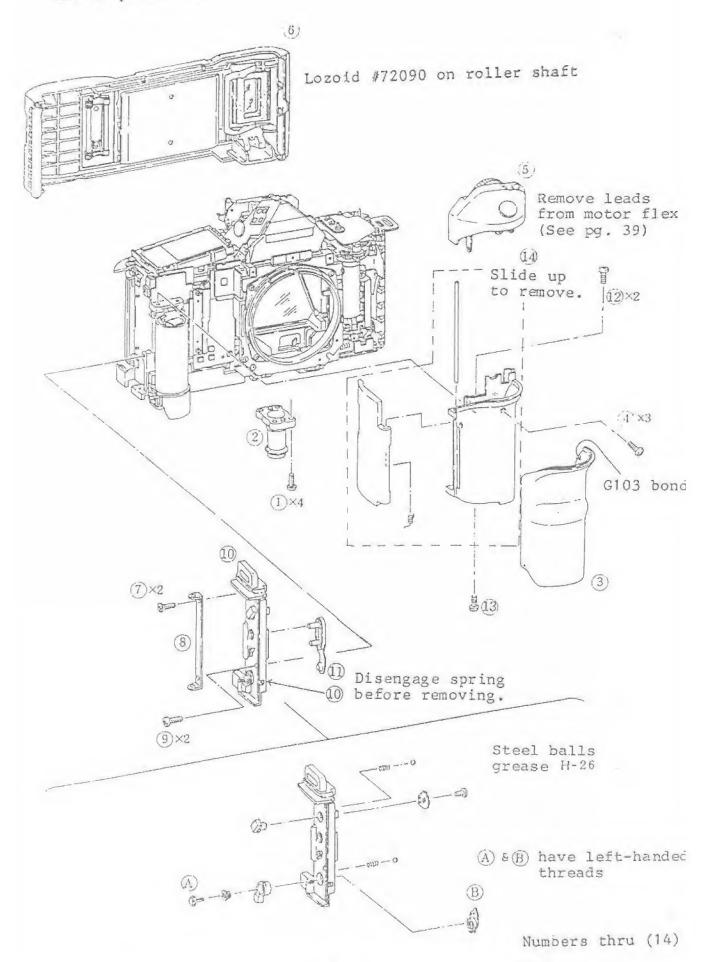
Standard: Visual Check

Tools: Variable Resistor (About 10K Ohms), FD Lens

Adjustment:

- 1. Remove R13 and install the variable resistor in its place.
- 2. Set the spot metering mode, the lens to "A", and press the spot button to activate the 30 second timer.
- 3. Adjust the variable resistor so that the segaments that should be visible are and the ones that should not be visible are not.

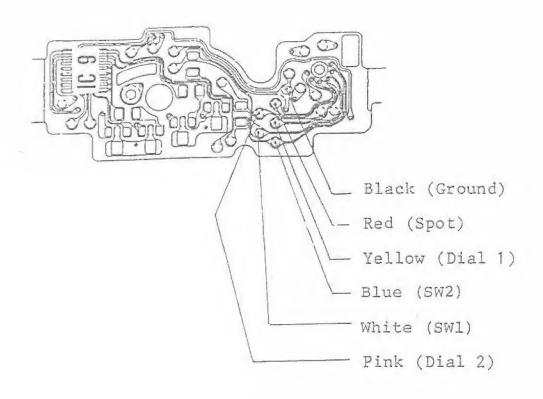
4. Remove the variable, read it and install the closest fixed resistor.



ASSEMBLY & DISASSEMBLY NOTES

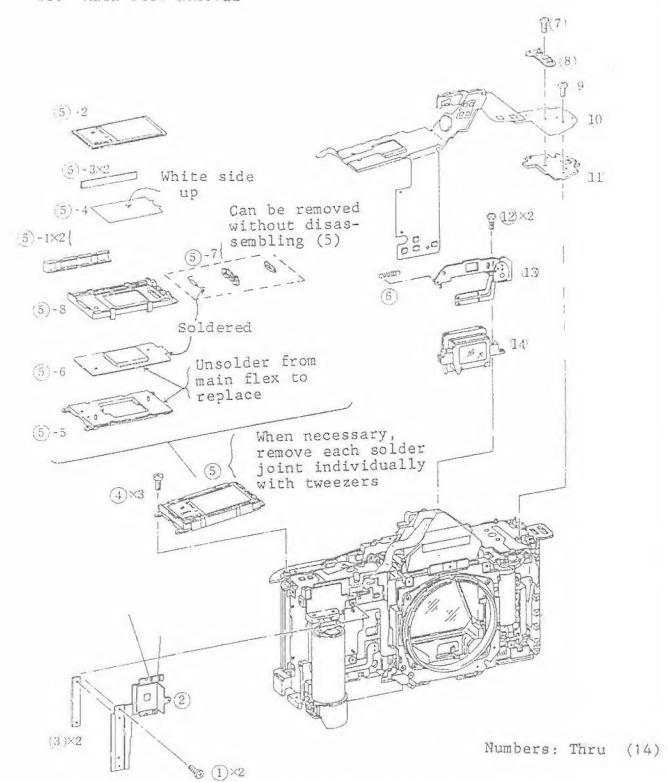
1. Grip Head Unit (5)

Six leads connect the grip head to the motor flex.



2. Grip (14)

Switch Panel Assembly (10) must be removed before Grip (14) can be removed.



Disassembly to the extent shown allows the following adjustments to be performed.

Index No.	Adjustment (Page No.)
10	Flash Mode Information (19)
	EV10 Amplifier Switching (20)

1. Main Flex Unit (10) Removal

There are 33 leads, 3 Thru-Hole connections, and direct connections to the shutter flex and the FD flex that must be removed

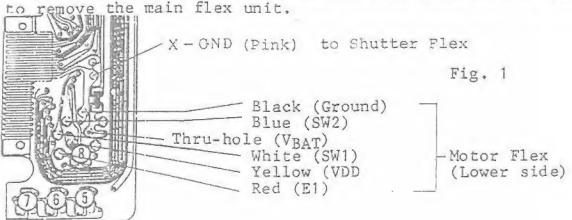
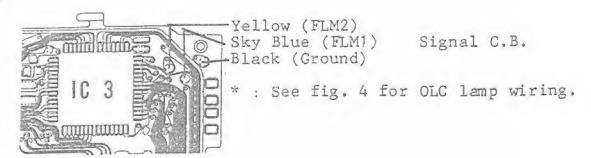
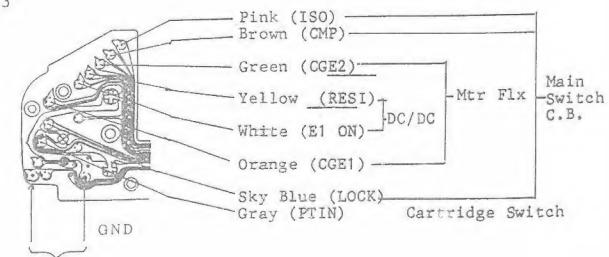


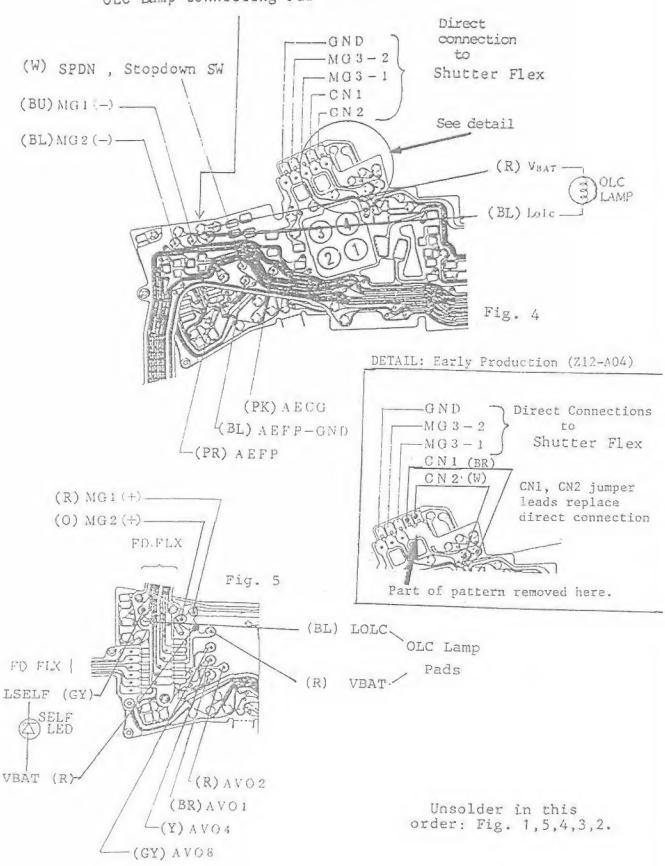
Fig. 2







Thru-hole connections (Back Cover Switch)



1. Flash Mode Information
Adjust when IC4 is changed, (If incorrecly adjusted, the flash
mode information will not be correctly sent to camera.)
Perform the EV10 crossover adjustment concurrently.

Tools: D.C. Power Supply, Voltmeter, two 10K variable resistors

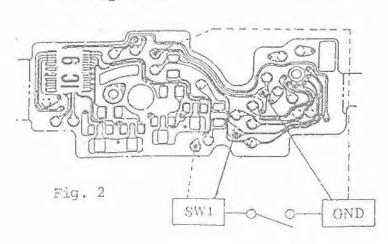
Adjustment: (Top & Front Covers Removed)

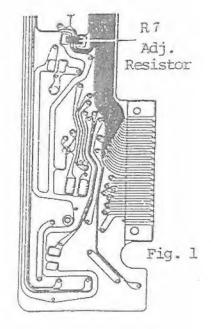
- 1. With the camera in operatable condition, unsolder the connections shown in figure 1 on page 17 and the self-timer LED unit. This frees the front tongue of the main flex.
- Remove R7 from the rear of the flex and install a variable resistor in its place.
- Resolder the main flex tongue and LED.
- 4. Close SW1 and measure VC.
- 5. Install a variable resistor between the GCC terminal and ground (metal part of the eyepiece shutter) The resistance should be set to VC/150uA.
- 6. Close SW1 and find the lighting threshold of the flash mark by adjusting the resistor.
- Remove the resistor, measure it, and install a fixed resistor of that value.

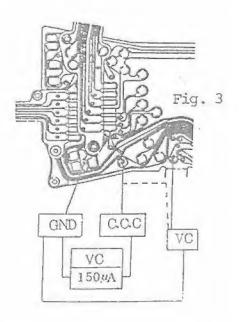
ALTERNATE ADJUSTMENTS

Battery Case and Grip Head Removed.

- A. For power connection, see No. 6 in the Repair Guide introduction.
- B. Install a temporary SW1 as shown in figure 3.







2. EV10 Amp Switching Adjust when IC4 is changed. If incorrect, improper exposure in the area of EV10 is possible even with level and gain adjusted. Perform concurrently with flash mode info. adj.

2E 2F 30 31 Standard: ±3/16 f Limits: (2D Value(Right TV digits)

Tools: D.C. Power Supply, Voltmeter, 10K variable resistor.

Adjustment: (Top & Front Covers Removed)

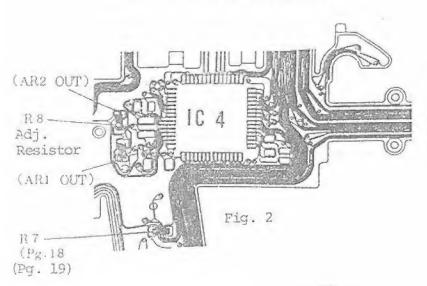
- 1. With the camera in operatable condition, unsolder the connections shown in figure 1 on page 17 and the self-timer LED unit. This frees the front tongue of the main flex.
- 2. Unsolder Lal leads (pg. 18, fig. 4) from intermediate pads.

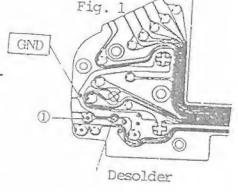
Remove the three screws from LCD1.

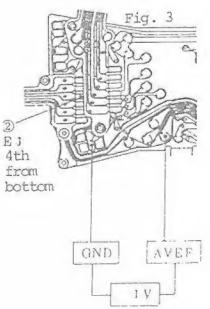
- Unsolder the connections shown in figure 2 on page 17. Remove resistor R8 (Fig. 2) and replace it with the variable resistor set to R8's resistance.
- 6. Resolder the connections to make camera operational.
- 7. Remove the solder bridge from (1) to GND in Fig. 1. 8. Connect Fig. 1 (1) and Fig. 3 (2) with a jumper.
- Apply about one volt from the AVEF

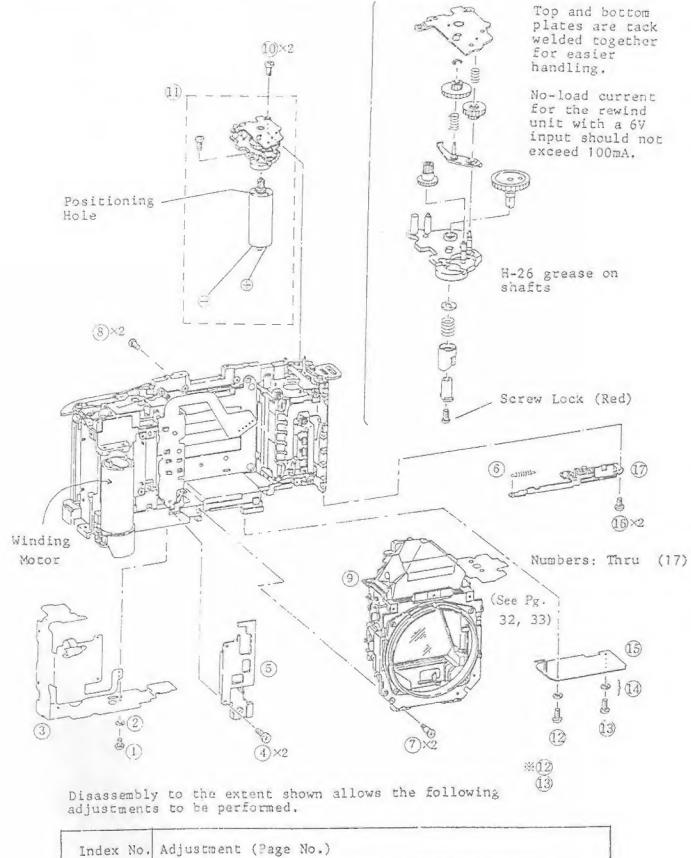
to ground pad (Fig. 3). 10. Close SW1.

- 11. Set the reading of the AV digits in the viewfinder to 06 by repeatedly shorting the bottom command back terminal to ground. The initial position is 03 and the shift sequence is 03-02-01-00-07-06-05-04-03 etc.
- 12. Adjust the D.C. power supply so the left TV digits read F8.
- 13. Adjust the variable resistor so the right pair of digits read 30.
- 14. Remove the resistor, read it, and install a fixed resistor.





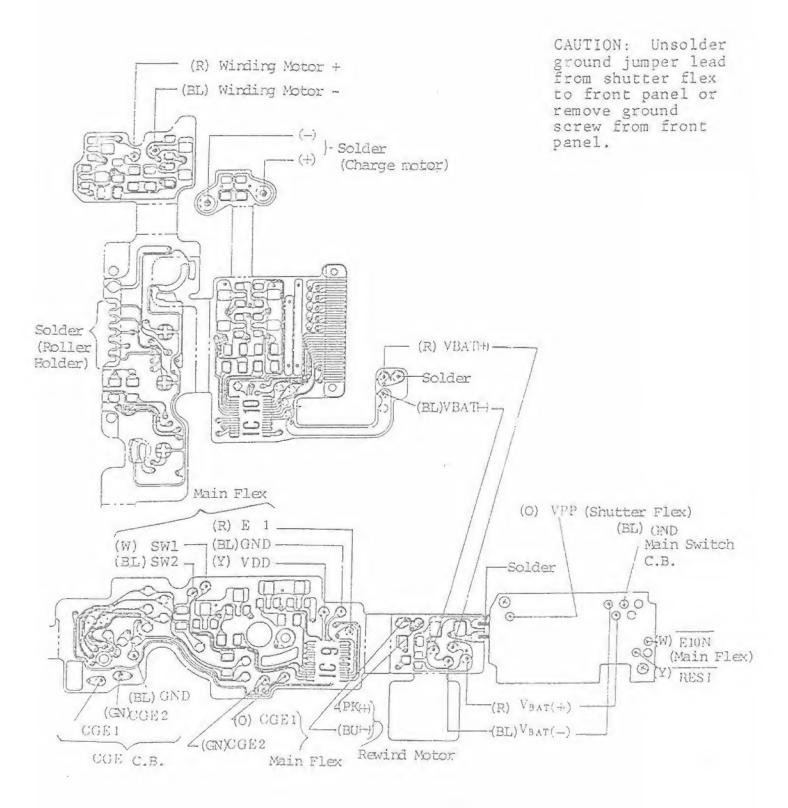




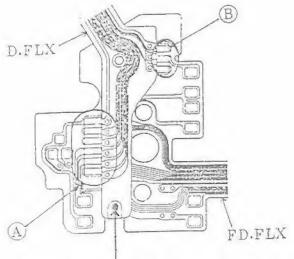
ndex No.	Adjustment (Page No.)
3	AE Overcharge (23) ; Shutter Overcharge (23)
9	AE Set Position (24) AE Set Timing (24) AE Pin Spacing (25) AE Brush Start Position (25) AVO (26)

ASSEMBLY & DISASSEMBLY NOTES

1. Motor Flex (3), DC-DC convertor (15)



2. Mirror Box (9) Removal



Back Cover SW Ground pin - Soldered to FD Flex.

Before unsoldering at (A) and (B), remove the DX Flex and unsolder the FD flex from the back cover ground switch pin. (The pin serves as a positioning pin for the DX Flex. Then unsolder (A) and (B). (If forcefully removed the pattern on the underside of the DX flex may be damaged.

NOTES:

- Because of the 2nd Curtain sync feature, the shutter should be charged when the mirror box is installed.
- 2. Post Assembly Chacks
 - 1) Apply about 3 volts to the winding motor to wind the mechanism (polarity is not important).
 - 2) Apply about 3 volts to the orange (+) and black (-) leads on the right side* of the mirror box.
 - 3) Apply about 3 volts to the magnet coils to check curtain operation.

 1st Curtain: Bottom two contacts, bottom contact is -.

 2nd Curtain: Top two contacts, top is +. (Will not operate if polarity is reversed.)
 - *: Viewed from the front.

ADUSTMENTS POSSIBLE AFTER REMOVING MOTOR FLEX

1. AE Overcharge

Standard: 0.9 - 1.1f

Tools: AE Tool Lens , DC Power Supply

1. Install the tool lens.

2. Apply 1.5 volts to the charge motor. (Attach the minus (-) from the D.C. power supply to the motor plus (+) for low gear operation.)

3. If not within tolerances, change the adjusting collar

This adjustment assures that the AE, automatic diaphragm, and mirror mechanism have sufficient overcharge.

Collars: (A): AE Overcharge

(B): Shutter Overcharge

(C): AE Overcharge

(If (A) is used to adjust overcharge, there should be space between shutter charge lever and main charge lever when the charge cam is at its maximum. After adjustment (A) must have some possible movement in the normal direction.

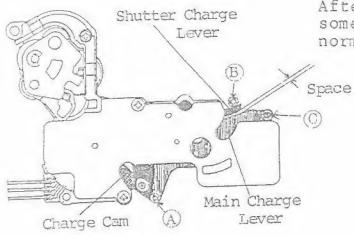
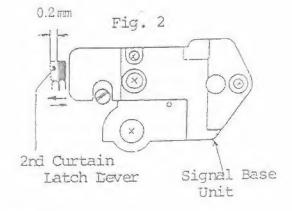


Fig. 1: Charge Complete

2. Shutter Overcharge

Standard: Fig. 2

Tools: DC Power Supply



Adjustment:

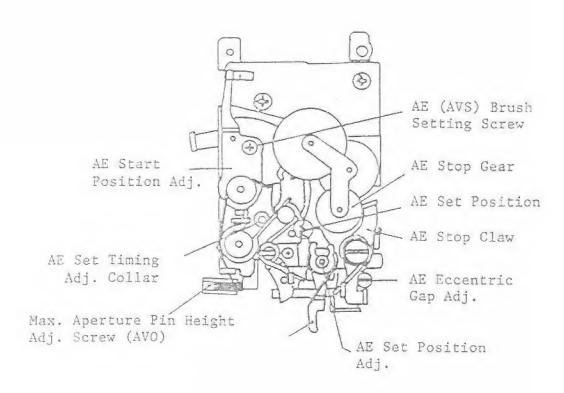
1. Apply 1.5 volts to the charge motor.

2. If not within tolerances, change the adjusting collar

(Fig. 1).
The 1st curtain sets first and then the 2nd curtain, To insure proper setting of the 2nd curtain, after adjustment (B) must have some possible movement in the normal direction (Fig. 1).

ADJUSTMENTS POSSIBLE AFTER DISASSEMBLING THE FRONT PANEL UNIT

Of the front panel units the AE unit and mirror mechanism (mirror 45° angle) require adjustment. Lubricate lever friction surfaces with Lozoid #72090, but use a small enough amount to insure against splatter.



Whe the AE unit is replaced, check AE eccentric gap, AE overcharge, and maximum aperture pin height. The other points are guaranteed by individual parts tolerances.

1. AE Set Position Adjustment

Standard: $0.4 \pm 0.2f$ (with f/1.4 lens)

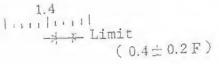
Tools: AE Tool Standard Lens

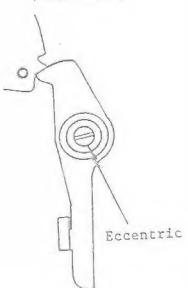
Adjustment

 Attach a tool standard lens, and charge the front panel.

2) If the tool lens pointer does not stop within the limits adjust the eccentric.

Notes: This adjustment is not normally necessary.
Close parts tolerances insure that it is usually correct.





Notes: This adjustment also affects the other AE unit adjustments: AE set timing, AE start position, and AE overcharge.

If a tool lens is not available, install an ordinary standard lens (to place a load on the aperture signal charge lever) and adjust to obtain seven turns plus six teeth, +1 tooth (1 tooth=0.1f; 1 rev.=1.2f).

2. AE Set Timing

Standard: AE set position: 0.4+0.2f

Front Panel's various levers seting: within 0.6f

AE overcharge: >1.1f

Tools: AE Standard Tool Lens

Adjustment

1) AE set timing must be adjusted so that the above standard are met.

2) Attach a tool lens, and adjust by changing with the AE set

timing collar. (Ref: T80 R.G. pg. 14)

Note: This collar adjustment affects the other front panel adjustments. If the tool lens is not available, be very careful with this adjustment. Adjust by counting the stop gear teeth.

3. AE Eccentric Gap Adjustment

Standard: 0.05 - 0.1mm Adjustment: With the mechanism wound, adjust with the eccentric.

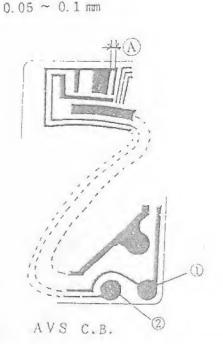
4. AE Start Position

Standard: Infinity Resistance between (1) & (2).

Tool: FD standard lens

Adjustment: Loosen AE brush screw and adjust brush position. Baising the adjustment toward the left helps prevent unnecessary error mark display.

Always check after other AE unit adjustments are made.

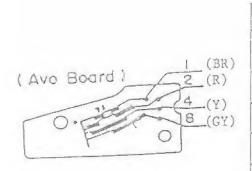


Eccentric

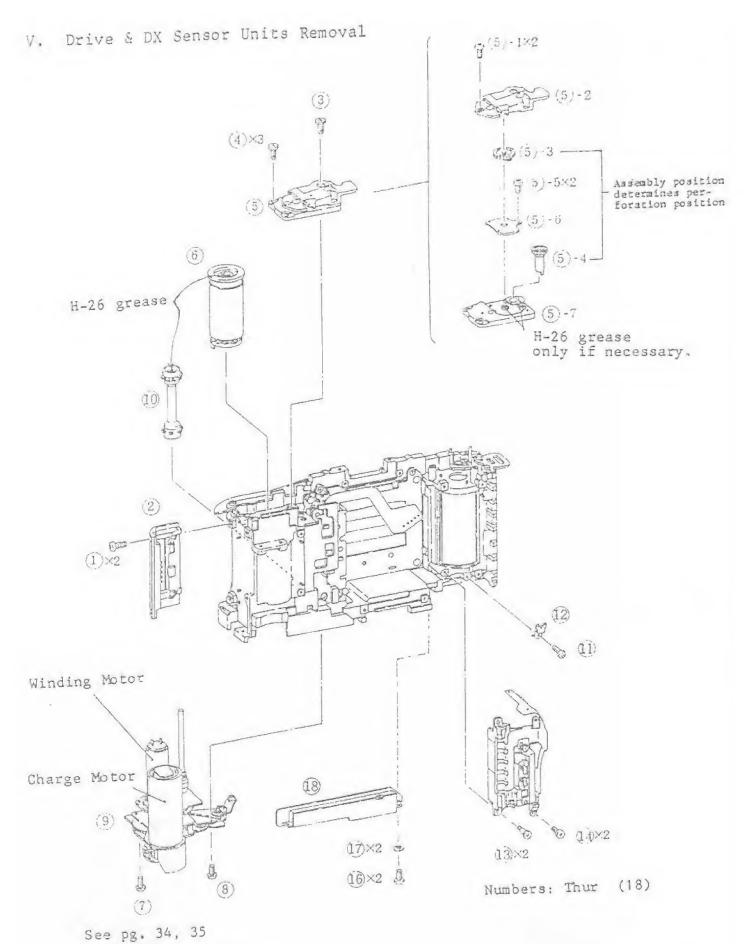
5. AVO Adjustment

- 1) Connect the plus (+) probe of a multimeter to the gray lead (AVO8) from the AE unit and ground the minus (-) probe to a metal part of the front panel.
- 2) Set a depth gauge to 7.025 mm and check whether the AVO height is correct by confirming that switching between the f/2.5 and f/2.8 levels occurs within ± 0.03 mm of this height.
- 3) AVO is adjusted by means of a screw inside the maximum aperture compensation pin. (The screw is locked with G103; dissolve it with keton.) After making the adjustment, paint the screw with G103.

Note: If a depth gage is not available use a known-good f/1.8 lens and f/2.0 lens and adjust so the correct maximum aperture is displayed on the external LCD.



					Chec	kpoir	ıt			
F NO.	5.6	4.5	4.0	3.5	2.8	2.5	2.0	1.8	1.4	1.2
(ma) ± 0.05	5.70	6.00	6.30	6.57	6.90	7.15	7.46	7.72	8.10	8.33
Avo 8	1	1	1	1	1	0	0	0	0	0
A vo 4	0	1	1	1	1	1	1	1	ī	0
Avo 2	1	1	1	0	0	0	0	1	1	T
A vol	0	0	1	1	0	0	1	1	0	0
Changeover Points	5.1	85 6.	15 6.4	35 6.	74 7.0	25 73	05 7.	59 7.	91 8:	24



When installing (7) and (8) in (9), move the AL cover out of the way.

ASSEMBLY & DISASSEMBLY NOTES

1. Drive Unit (9)

1.1 Disassemble and reassemble with the shutter charged.

1.2 By removing sprocket screw (3) and screws (7) and (8), the unit can be removed.

1.3 Reassembly is facilitated if extensions are soldered to the winding motor leads before removal.

1.4 No-load Currents (6V Input)

High: Winding Motor:

< 70mA (Spool turns) < 50mA (Spool & Sprocket turn) Low :

< 200mA High: Charge Motor: < 180mA Low :

Reverse polarity for high/low switching.

1.5 Post-assembly Checks

1) Both sprocket and spool should have a little thrust play.

2) Apply 6V to both motors and check operation of the sprocket, spool, and charge mechanism.

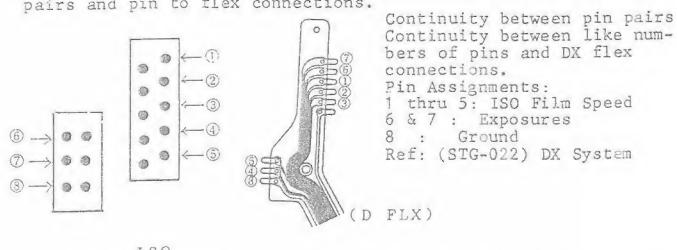
2. DX Unit (15)

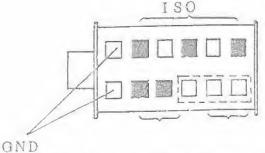
2.1 Only the complete unit is stocked.

2.2 Before disassembling the camera, check the LCD display with cartridges coded for ISO 100 and 1000, 12 and 20, or 24 and 36 exposures.

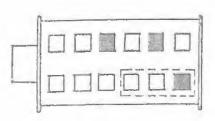
2.3 With the uninstalled unit check continituity between the pin

pairs and pin to flex connections.



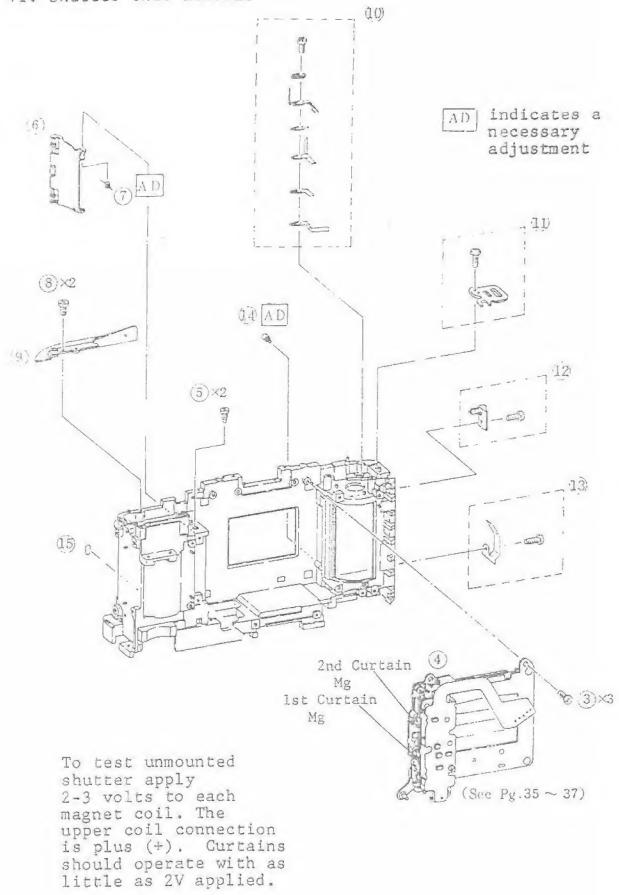


ISO 100, 36 exp. +3,-1EV Latitude



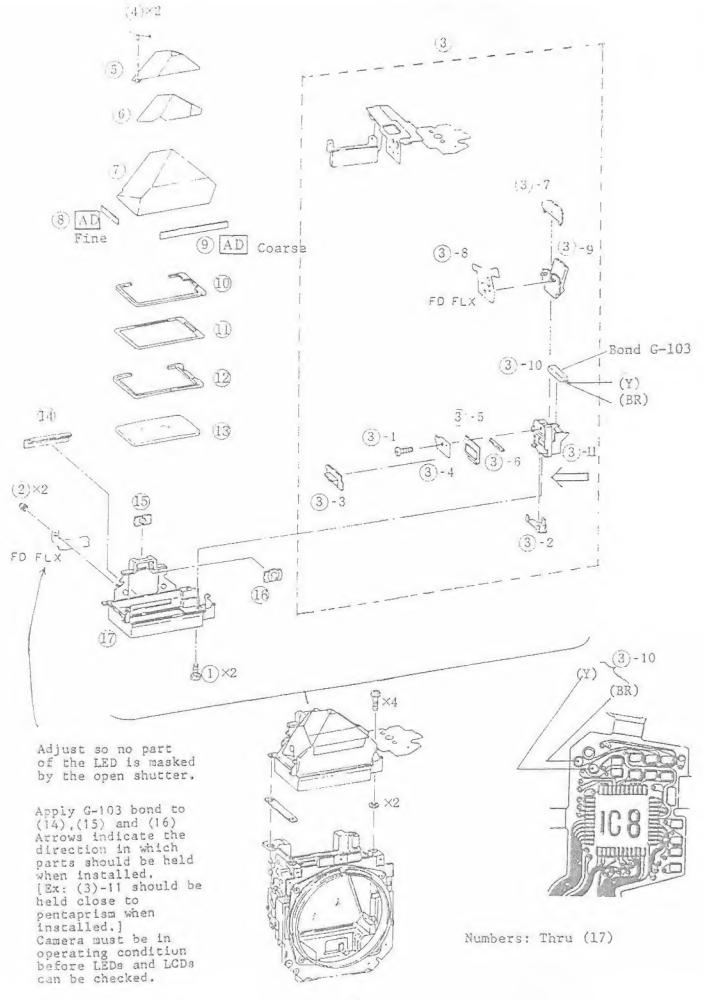
- Non-conductive
- C) Conductive
- N/A for this camera.

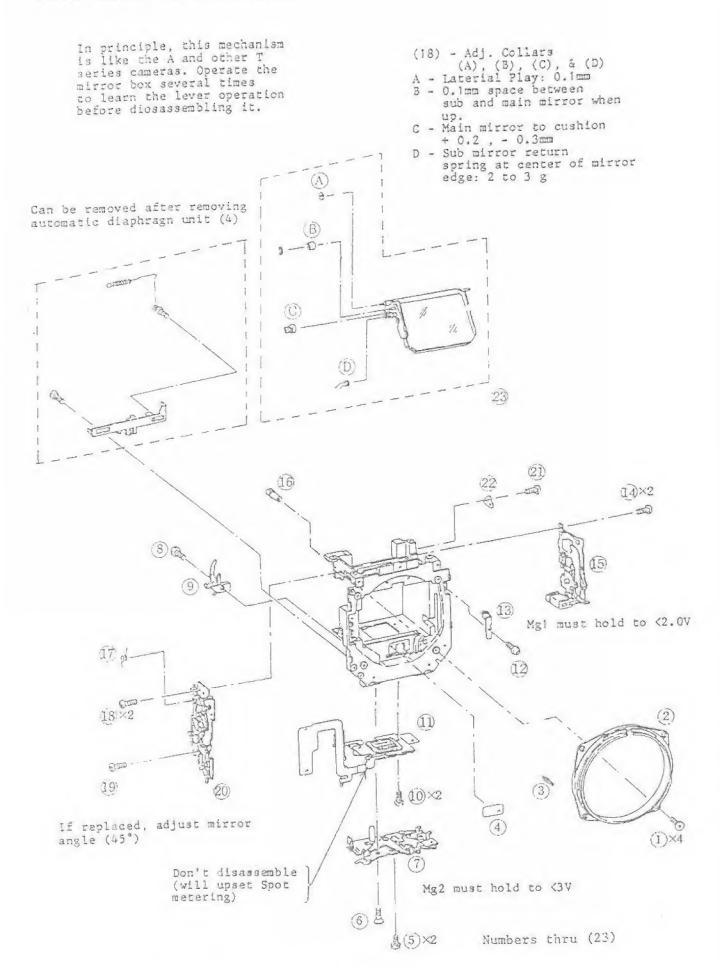
ISO1000, 24 exp. +1EV Latitude



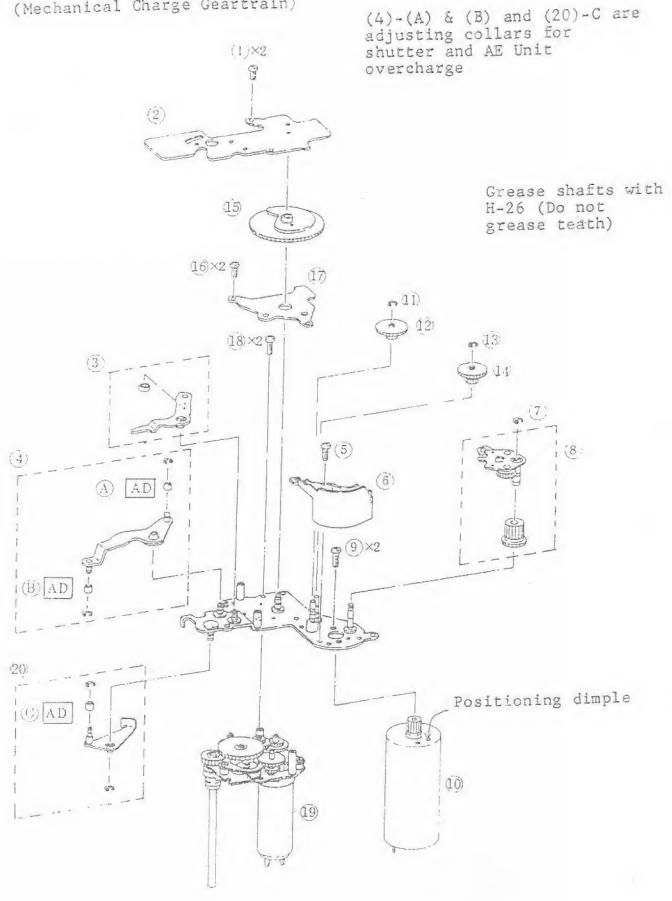
ASSEMBLY & DISASSEMBLY NOTES

- 1. AL Cover Spring Adjustment
 Tension with the cover roller 2 -3mm away from the spool should
 be 65-80g. If too weak, film will wind too loosely at low temperatures. If too strong, film will not load with the proper
 initial offset. This also will result in loose winding onto
 the spool.
- 2. Film Guide Shaft (14) Adjustment
 The shaft diameter should be the same as the width of the inner
 guide rail ±0.1mm. If the shaft is replaced, use the same
 size. When the body is replaced, select the correct size.
- 3. Shutter Unit
 Charge torque must be less than 1220gcm.
 If the shutter is removed with the drive base attached, they should be in the charged condition.
 When the shutter is replaced, attach the drive unit and check overcharge before installing the new shutter. (1st curtain sets first and then 2nd curtain. 2nd curtain should have some play.)
 The shutter can be removed after the front and top covers, charge motor, and main flex are removed.

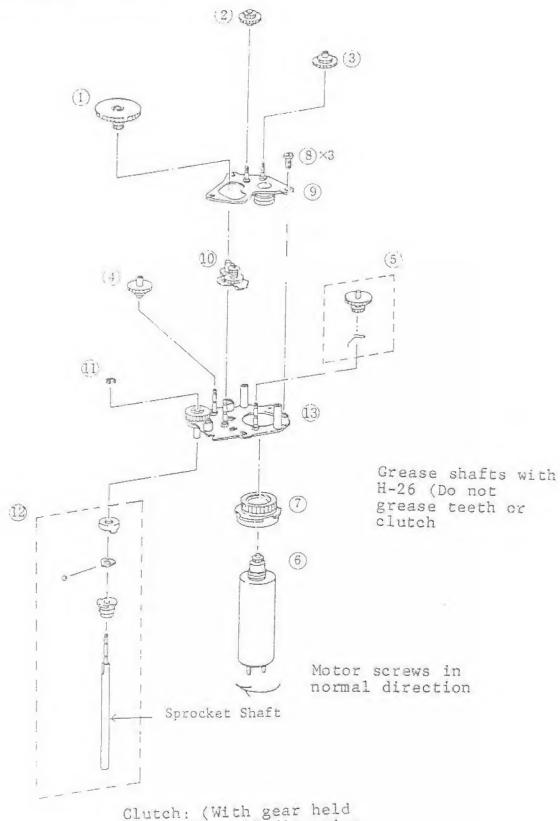




IX. Drive Unit Disassembly (Mechanical Charge Geartrain)

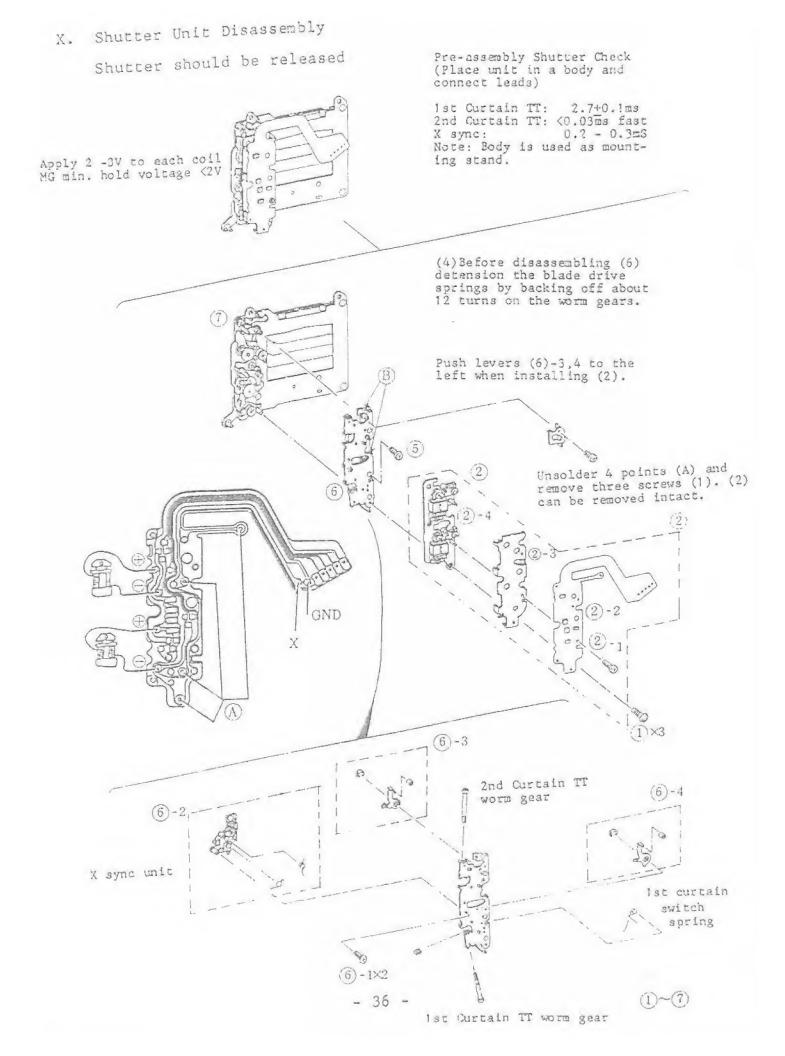


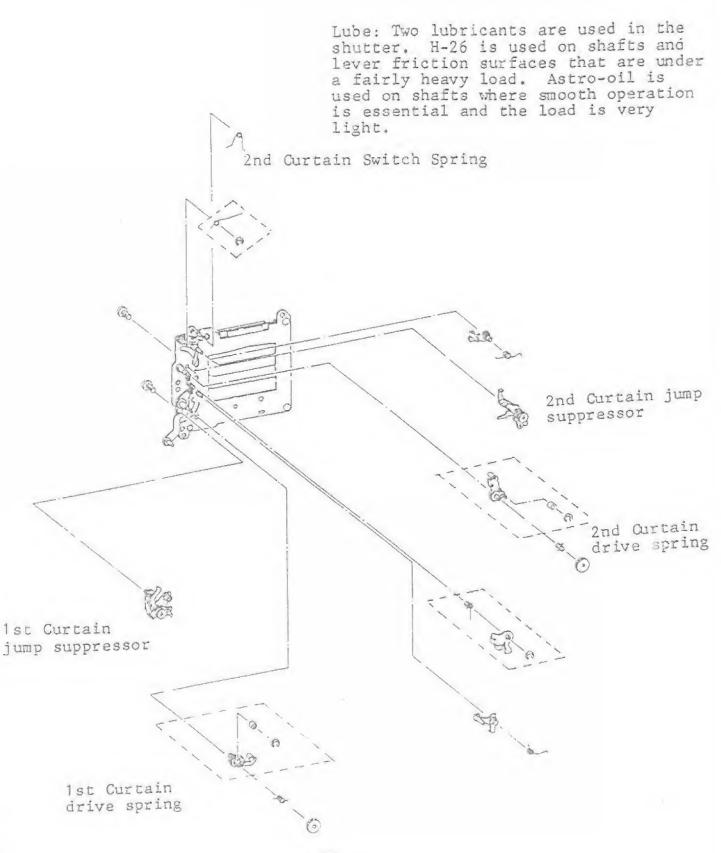
IX. Drive Unit Disassembly
 (Film Winding Geartrain)

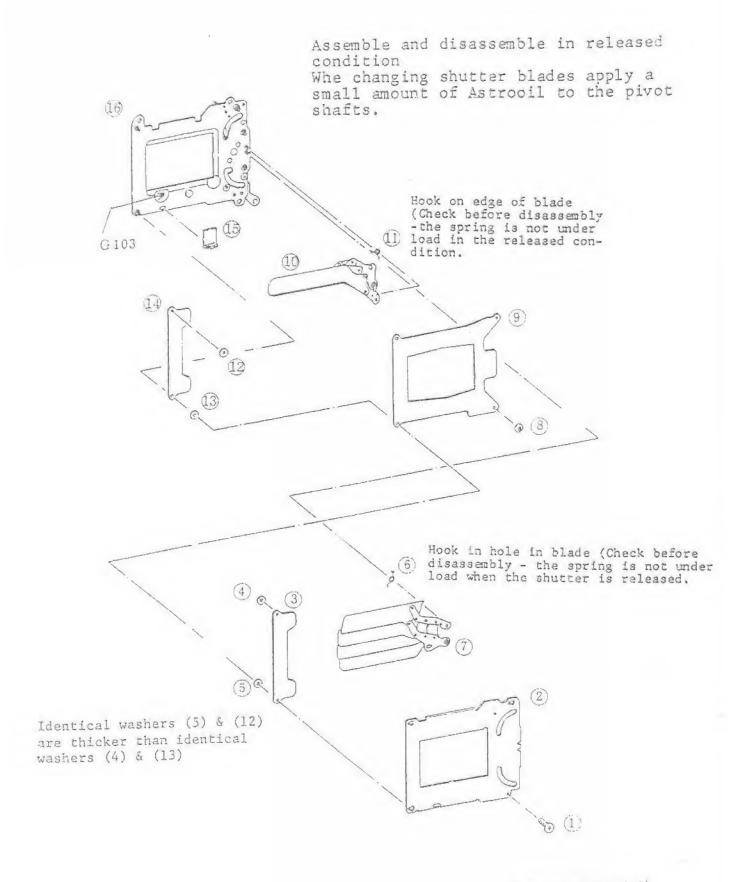


Clutch: (With gear held turns in spoll direction only)

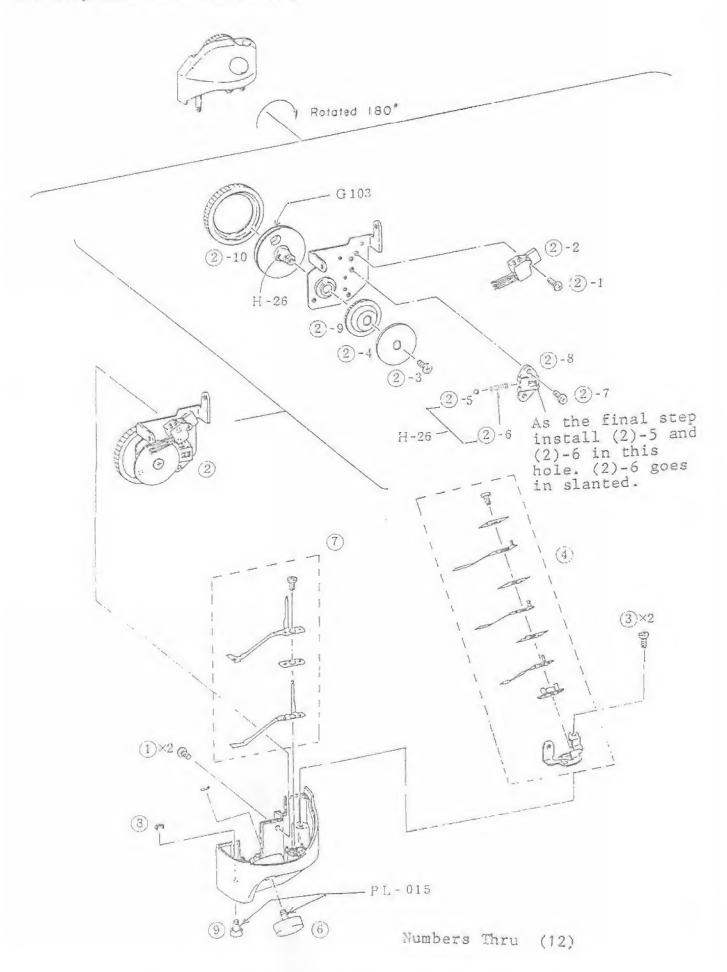
Numbers Thru (13)







Numbers thru (16)

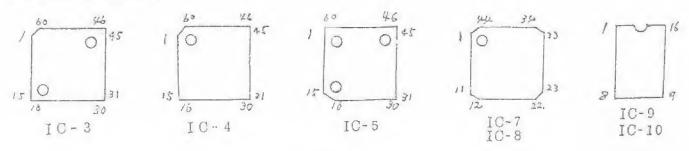


Part Name	Adjustments (In order from the left)
Main Flex Unit*	VR8, VR2, VR3, VR4, VR1, VR5, VR6, VR7.
FD Flex Unit	N/A
Motor Flex Unit	N/A
DX Flex Unit	N/A (DX Sensor Unit is service part)
Spot Flex Unit	N/A
Shutter Flex Unit	N/A
DC/DC Convertor	N/A
IC-1 (Metering)	R5, VR3, VR4.
IC-2 (Metering-S)	Spot Flex Unit is pre-adjusted at factory
IC-3 (MPU)	N/A
IC-4 (I/O)	R7, R8, R13, R10 & Main Flex Adjustments
IC-5 (SPU)	N/A
	N/A (Service Part includes circuit board)
IC-7 (LCD-2 Drive)	
IC-8 (LED Drive)	N/A
IC-9 (Drive)	N/A (Change IC-9 & IC-10 as pair)
IC-10 (Drive)	N/A

*: When Main Flex is changed, put leader protrusion and aperture accuracy pads in same condition as removed flex. Perform the partial area alignment when the main flex or IC-1 is replaced.

Adjustment	Incorrect Adj Indication	Resistance (Ohm)	Page
VRĬ (Gain)	Exp. accuracy varies with brightness (tilt)	9K-13K	11,12
VR2 (Spot)	Incorrect Exp Spot(Level)	15K-30K	11,12
VR3 (Partial)	Part	18K-40K	111,12
VR4 (Average)	Avg,	54K-93K	11,12
VR5 (AVEF)	Incorrect flash aperture	0-10K	5
VR6 (FELK)	Incorrect FELK exposure	0-10K	6
VR7 (TTL)	Incorrect Flash TTL exp.	0-10K	6
VR8 (T)	Incorrect shutter speed	0-300K	3, 4
R5 (NULL)	Wrong exp. at <ev +2<="" td=""><td>4.3K-300K</td><td>9</td></ev>	4.3K-300K	9
R7	Flash doesn't commucate mode to camera	4.02K-7.87K	18
R8	Exp. accuracy different above and below EV10	64.9-1.3K	19
R10	Wrong oper. w/low battery	12.4K-20K	6
R13	Unnecessary segments of LCD2 visible in finder	5.62K-10K	11

IC Pin Diagrams



CRASED ON REV)

+0.500 +0.450 +0.450 +0.350 +0.350 +0.250	0.333	0 041	-)	1											-	
0 . 450	.333	100.6	1.381	2.762	5.524	11.05	22.10	44.19	88.39	176.8	353.8	707.1	1414.2	2828	5657	11314	22627	45255
0 . 4 0 0 0 0 . 3 5 0 0 0 0 . 3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	738.0	1.334	2.668	5.336	10.87	21.34	42.89	85.38	170.8	341.5	\$83.0	1386.0	2732	5464	10928	21857	43713
0.350	.322	0.644	1.288	2.577	5.154	10.31	20.62	41.23	82.47	164.9	329.9	659.8	1319.0	2639	5278	10556	21112	42224
0.300	.311	0.622	1.245	2.489	4.979	9.957	19.92	39.83	79.68	159.3	318.6	637.3	1274.6	2543	5003	10197	20393	40786
0.250	0.300	0.801	1.202	2,405	4.809	9.618	19.24	38.47	76.95	153.9	307.8	8.15.8	1231.1	2462	4825	5849	19698	39397
	0.530	0.581	1.161	2.323	4.645	9.291	18.58	37.16	74.33	148.7	297.3	594.6	1189.2	2378	4757	9514	19027	38055
+0.200	0.280	0.561	1.122	2.244	4.487	8.974	17.95	35.90	71.79	143.6	237.2	574.3	1148.7	2297	4595	9190	18379	36758
+0.150	1.271	0.542	1.084	2.167	4.334	8.669	17.34	34.67	69.35	138.7	277.4	554.8	1109.6	2219	4438	8877	17753	35508
+0.100	3.262	0.523	1.047	2.093	4.187	8.373	16.75	33.49	66.99	134.0	267.9	535.3	1071.8	2144	4287	8574	17148	34297
+0.050.0+	0.253	0.505	1.011	2.022	4.044	8.038	16.18	32.35	64.70	129.4	258.8	517.6	1035.3	2071	4141	8282	18564	33129
0	0.244	0.488	0.977	1.953	3.808	7.813	15.62	31.25	62.50	125	250	200	1000	2000	4000	8000	16000	32000
-0.050	0.236	0.472	0.343	1.887	3.773	7.546	15.09	30.19	60.37	120.7	241.5	483.0	865.8	1931.9	3864	7727	15455	30910
0 001.0-	0.228	0.456	0.911	1.822	3.854	7.289	14.58	29.16	58.31	116.8	233.3	486.5	933.0	1866.1	3732	7464	14929	29857
-0.150	0.220	0.440	0.880	1.760	3.521	7.041	14.08	28.16	56.33	112.7	225.3	450.8	901.3	1802.5	3605	7210	14420	28840
-0.200	0.212	0.425	0.850	1.700	3.401	6.801	13.60	27.20	54.41	108.8	217.6	435.3	870.5	1741.1	3482	6964	13929	27858
-0.250	0.205	0.411	0.821	1.642	3.285	6.569	13.14	26.28	52.58	105.1	210.2	420.4	840.9	1681.8	3364	6727	13454	26909
-0.300	0.198	0.387	0.733	1.588	3, 173	6.346	12.69	25.38	50.77	101.5	203.1	406.1	812.3	1624.5	3243	6438	12986	25392
-0.350	0.192	0.383	0.736	1.532	3.065	6.130	12.28	24.52	49.04	93.07	136.1	392.3	784.6	1569.2	3138	6277	12553	25107
-0.400	0.185	0.370	0.740	1.480	2.960	5.920	11.84	23.68	47.37	94.73	189.5	378.9	757.9	1515.7	3031	6063	12126	24252
-0.450	0.178	0,357	0.715	1.430	2.860	5.719	11.44	22.88	45.75	91.51	183.0	0.888.	732.0	1464.1	2928	5856	11713	23425
-0.500	0.173	0.345	0.691	1.381	2.762	5.524	11.05	22.10	44.19	88.33	176.8	353.6	707.1	1414.2	2828	5657	113 (4	22627

3 .	Test Equipment 1. Regulated D.C. Power Supply (Set to 6 volts, with 0.4 Ohm resistor late battery internal resistance) 2. New FD50mm f/1.4 3. Ammeter 4. 36 exp. TRI-X film	in series to simu-
	Condition	Under
*** •	With main switch at Lock (L),	100uA
2.	With main switch at A	100uA
3.	Exposure Metering (SW1 on)	150mA
4.	Winding (High mode, 20th frame, f/5.6)	1450mA
4.	Rewinding (with film)	450mA
	Rewinding time	12 seconds

SERVICE TOOLS LIST

TEST EQUIPMENT

Part No. (New tools only)

Extended Range Shutter Tester FS-5300

CY9-7066-00C XXX

TTL-OTF Photoreceptor DIR-201 (used with modified EF 500)

CY9-7076-000

Multi-camera Tester EF 500AC (Modified for DIR-201)

Digital Multimeter (DMM) (1mV, 1uA specs.)

Universal 600mm Range-viewfinder Collimator or equivalent.

Oscilloscope

Regulated Voltage Power Supply (LVPS)

AE Standard Tool Lens

Universal Type 90° Collimator or Simplified 90° Collimator

42.14mm Dial Gauge Set

Dial Tension Gauge- 100g

2.5mm Hex Key (Mirror Angle)

Sub-mirror Spanner (New F-1 shutter spanner)

T90 SERVICE PARTS FOLICY

THE FOLICY OF CAMERA SERVICE, TOKYO, IS TO STOCK ALL PARTS NECESSARY TO EFFECT EFFICIENT ECONOMICAL SERVICE. IT IS NEITHER NECESSARY NOR TECHNICALLY FEASIBLE TO STOCK SEPARATELY EVERY PART THAT GOES INTO EACH PRODUCT.

IN ESTABLISHING THE SPARE PARTS LIST, WE CONSIDER REPAIR DIFFICULTY, LABOR COST, SPECIAL TOOL REQUIREMENTS AND INDIVIDUAL PARTS Vs. ASSEMBLED UNIT COST TO DETERMINE IN WHICH FORM PARTS WILL BE STOCKED.

PARTS LINE ITEMS: Approx. 500 (INCLUDING 380 NEW PARTS)

1. THE UNITS LISTED BELOW ARE STOCKED AS UNITS BECAUSE THEY REQUIRE TOOLS OR TECHNICS NOT NORMALLY AVAILABLE AT FIELD SERVICE LEYEL.

CG1-0860-000	FOCUSING SCREEN E	cg9-2684-000	FRONT COVER ASSY
CG1-0868-000	AUTO DIAPHRAGM UNIT	cg9-2685-000	SELF TIMER LED ASSY
CG1-0869-000	AE UNIT	cg9-2686-000	SPOOL ASSY
CG9-2670-000 CG9-2673-000 CG9-2675-000 CG9-2679-000 CG9-2680-000 CG9-2681-000	AL COVER ASSY DX SENSOR ASSY ROLLER HOLDER ASSY STOP-DOWN MECH. ASSY EYEPIECE EYEPIECE SHUTTER ASSY	CY1-1234-000 CY1-1248-000 CY1-1249-000 CY1-1250-000 CY1-1251-000	DTTL/SPOT FLEX ASSY 1ST CURTAIN BRAKE ASSY 2ND CURTAIN BRAKE ASSY SHUTTER FLEX ASSY SHUTTER MAGNET ASSY

2. IN ADDITION TO THE ABOVE, WHICH ARE STOCKED ONLY AS UNITS, SOME INDIVIDUAL PARTS ARE STOCKED FOR THE FOLLOWING UNITS IN ADDITION TO THE UNIT.

CG1-0851-000	TOP COVER UNIT	CG9-2677-000	RELEASE BUT./DIAL ASSY
CG1-C852-000	BACK COVER UNIT		BATTERY PACK UNIT
CG1-0857-000	MOTOR FLEX UNIT	CG9-2689-000	MIRROR ASSY
CG1-0867-000	MIRROR MECHANISM	CY1-1232-000	REWIND MECH. ASSY
CG1-0871-000	SHUTTER UNIT	CY1-1252-000	MAIN FLEX ASSY
CG9-2672-000	MOTOR SIG. BASE ASSY	CY1-1253-000	FINDER FLEX ASSY

- 3. INDIVIDUAL ELECTRICAL COMPONENTS WHICH MAY REQUIRE REPLACEMENT ARE STOCKED. OTHERS ARE LISTED ON THE SCHEMATIC WITH THEIR SPECIFICATIONS.
- 4. THE SPARE PARTS LIST IS ADJUSTED PERIODICALLY TO INSURE THE NECESSARY PARTS ARE ALWAYS AVAILABLE, AND UNNECESSARY PARTS ARE REMOVED FROM THE STOCK LIST. A COMPLETE REVIEW WILL BE CONDUCTED ONE YEAR AFTER MARKETING.
- 5. ASSEMBLIES SHOWN WITH THE N.S. MARK ARE SHOWN FOR CLARITY ONLY. THEY ARE NOT STOCKED IN THE FORM SHOWN.

サービス部品は修理上の精度、工数、コスト、部品の使用頻度等、諸々の事由を勘案し設定している。

特にユニット部品の構成部品中で、使用頻度の少ないものはサービス部品とはしない。 キャノンT90においては次のような設定部品とする。

部品設定点数 約500点 (新規部品 約380点 流用部品 約120点)

1.下記部品はユニットのみをサービス部品とする。

```
CG9-0860-000 フォーカシングユニット(E Type) CG9-2884-000 前カバーユニット
                                CG9-2885-000 S-LED==> >
CG9-0868-000 自動紋りユニット
                                CG9-2886-000 スプールユニット
CG9-0869-000 AE==> >
CG9-2870-000 A L カバーユニット
                                CY1-1234-900 調光フレキユニット
CG9-2873-000 Dセンサーユニット
                                CY1-1248-000 先菓ブレーキユニット
CG9-2875-000 ローラーホルダーユニット
                                CY1-1249-000 後慕ブレーキユニット
CG9-2879-000 絞り込みユニット
                                CY1-1250-000 シャッターフレキユニット
CG9-2880-000 アイピースユニット
                               CY1-1251-000 シャッターMGユニット
CG9-2881-000 アイピースシャッターユニット
```

2. 下記部品はユニット及び使用頻度の高いと考えられる部品をサービス部品とする。

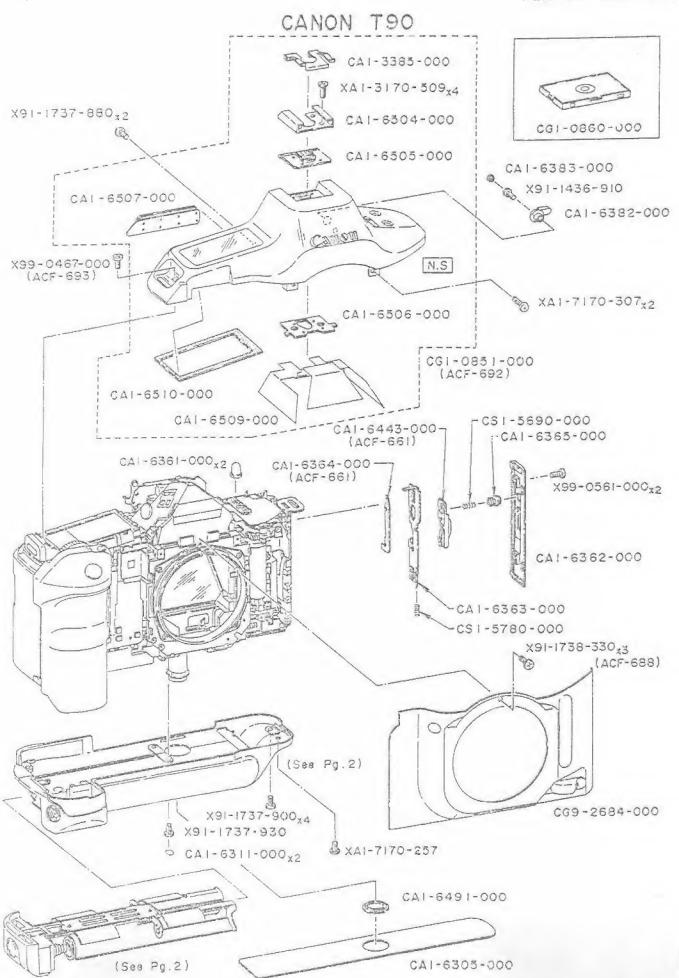
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CG1-0851-000上蓋ユニットCG9-2877-000キャップユニットCG1-0852-000背蓋ユニットCG9-2883-000電池蓋ユニットCG1-0857-000モーターフレキユニットCG9-2689-000ミラーユニットCG1-0867-000ミラーQ RユニットCY1-1232-000巻戻レユニットCG1-0871-000シャッターユニットCY1-1252-000メインフレキユニットCG9-2672-000信号地板ユニットCY1-1253-000FDフレキユニット
```

- 3. 電気素子は一部のもの以外は、サービス部品としないが修理時のチェックが出来るよう定格を 明示している。 (ELECTRIC PARTS & LEADSのPARTS LISTを参照)
- 4. 当初、サービス部品設定されていない部品でも状況に応じ、サービス部品として追加することもある。尚、今回は特にユニット部品のみを多く設定してあるので発売1年後に部品設定の見値しを行う。
- 5. ユニットの一部で、サービス部品としないものは N.S マークをつけてある。

REF.NO.C12-1902

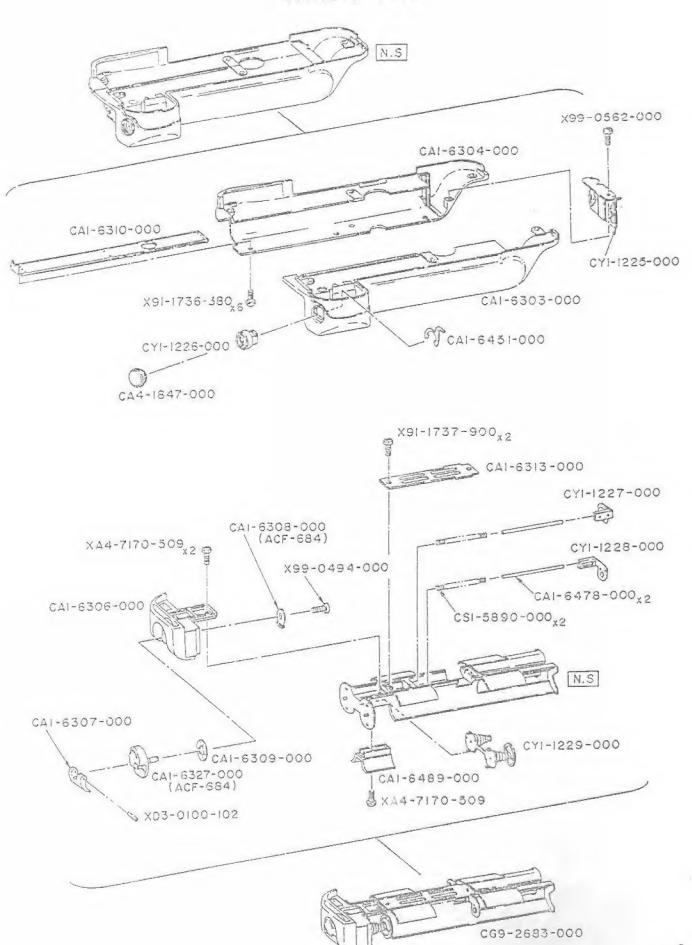
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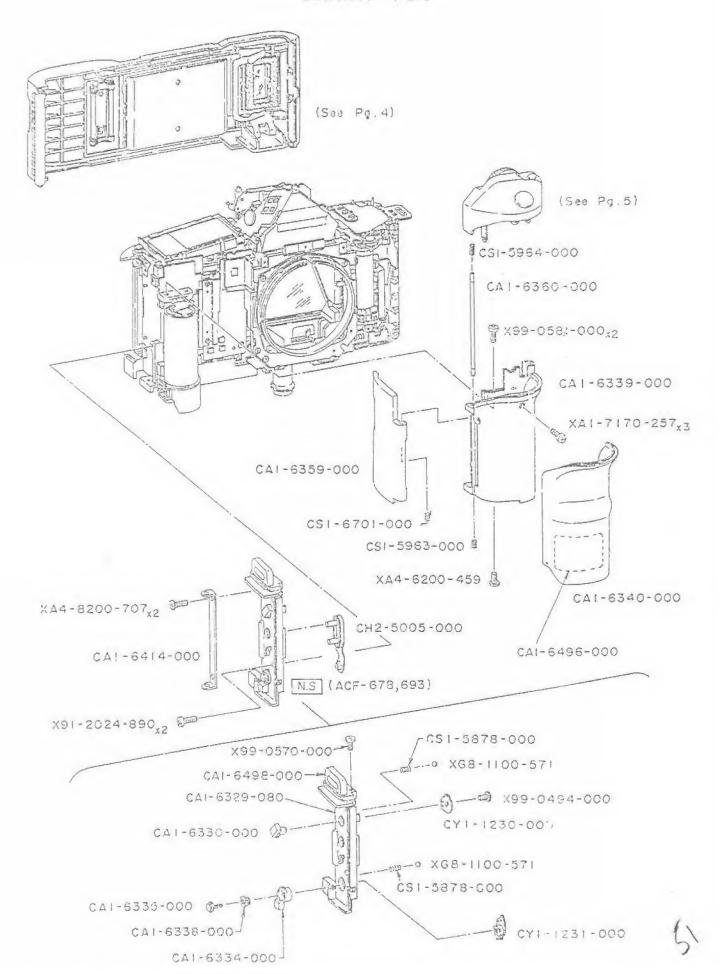
EXTERNAL PARTS

EXTERN	IAL PARIS			
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-3385-000	C	1	SPRING, PLATE (BL)
	GA1-6305-000	C	1	SHEET, RUBBER
	CA1-S311-000	A	2	CAP
	CA1-8381-000	Ď	2 2	BUTTON, MODE
		D	Ĭ	COVER, HOOK
	CA1-6362-000	U	1	COVER, HOOK
	CA1-6363-000	E E	1	ноок
	CA1-5364-000	E	1	LEVER, LOCK
	GA1-3355-000	Ε	Î	BUTTON, UNLOCK
	CA1-6382-000	D	1	LEVER, EYEPIECE
	CA1-6383-000	D	I	GAP, EYEPIECE LEVER
	CA1-8443-000	D	1	KHOB, BACK COVER
	CA1-6491-000	Č	î	NUT
		D	1	SHOE, ACCESSORY
	CA1-8504-000		1 1	BASE, ACC. SHOE
	GA1-6505-000	E	1	PLATE, SHOE MOUNTING
	CA1-85G8-000	ř	Ţ	PLATE, SHOE MOUNTING
	CA1-8507-000	D	1	SWITCH, H.S. CONTROL
	CA1-6509-800	E	1	INSULATOR
	CA1-8510-000	E	1	SHIELD, LIGHT
	CG1-0851-000	D	1	TOP COVER UNIT
	CG1-0860-000	D	1	SCREEN E, FOCUSING
	CG9-2684-000	С	1	FRONT COVER ASSY
	CS1-5690-000	D	1	SPRING, COIL
	CS1-5780-000	D	1	SPRING, COIL
		D	4	SCREW, CROSS-RECESS, FCH
	XA1-3170-509		1	SCREW, CROSS-RECESS, PH
	XA1-7170-257		T	Strew, Gross-Recess, Fil
	XA1-7170-307		2	SCREW, CROSS-RECESS, PH
	X91-1436-910		1	SCREW, CROSS-RECESS, PH
	X91-1737-880		2	SCREW, CROSS-RECESS, PH
	X91-1737-900		2	SCREW, CROSS-RECESS, PH
	X91-1737-930		4	SCREW, CROSS-RECESS, PH
	X91-1738-330		3	SCREW, CROSS-RECESS, PH
	X39-0467-000		3	SCREW, CROSS-RECESS, PH
	****		3	SCREW, CROSS-RECESS, PH
	X99-0561-000		U	Contain, onodo neodoc; in



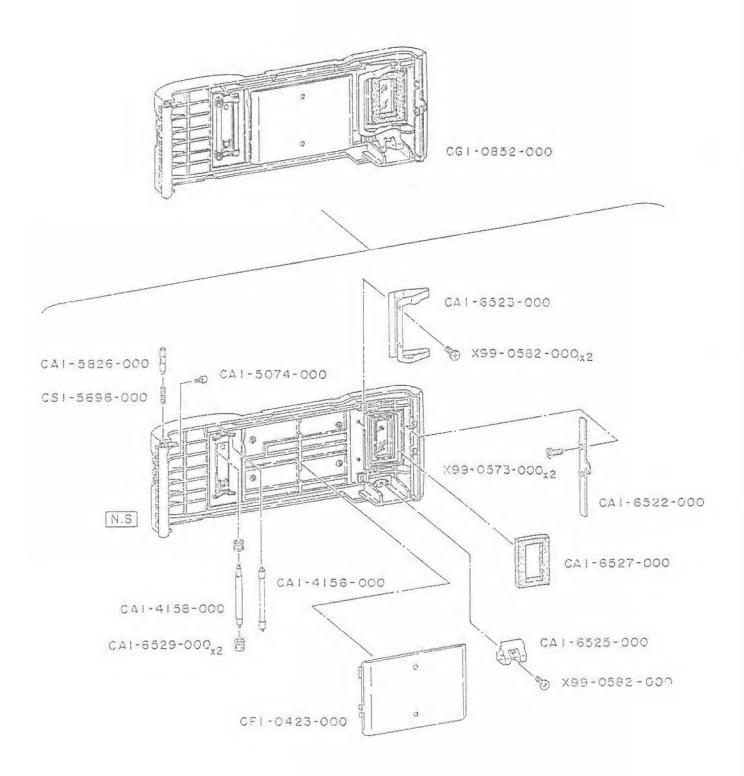
BATTERY CASE

VFW	PARTS NO.	CLASS	YTO	DESCRIPTION
18.77 ()		D	1	CASE-1, BATTERY
	CA1-6303-000	_	1	CASE-2, BATTERY
	CA1-6304-000	D	1 1	HOLDER, BATTERY PACK
	CA1-8306-000	D C	1	KNOB, BATTERY PACK
	CA1-6307-000	U	1	
	CA1-8308-000	Ξ	1	CLAW, BATTEHY PACK
	CA1-6309-000	E	1	WASHER, SPRING
	CA1-6310-000	E	1	GUARD, BATTERY CASE
	CA1-6313-000	E E E	1	PLATE, BATTERY INDICATION
	CA1-6327-000	D	1	OPENER, BATTERY PACK
	CA1-8451-000	E	1	RETAINER, REMOTE JACK
	VIII			
	CA1-6478-000	Ε	2	SHAFT
	CA1-6489-000	E	1.	SPACER, BATTERY PACK
	CA4-1847-000	D	2 1 1 1	CAP TERMINAL
	CG9-2683-000	C	1	BATTERY PACK ASSY
	CS1-5890-000	E	2	SPRING, COIL
				DUMMENT CONTINUE LOCAL
	CY1-1225-00G	D D	1	BATTERY CONTACT ASSY
	CY1-1225-000	D	1	JACK, REMOTE
	CY1-1227-000		And	CONTACT-A, FOOL PROOF
	CYI-1228-000	D	1	CONTACT-8, FOOL PROOF
	CY1-1229-000	D	1	CONTACT, BATTFRY
	XA4-7170-509		3	SCREW, CROSS-RECESS, PH
	XD3-6100-102		1	PIN, SPRING TUBULAR
	X31-1735-380		E	SCREW, CROSS-RECESS, PH
			3 1 6 2	SCREW, CROSS-RECESS, PH
	X91-1737-900		1	SCREW, CROSS-RECESS, PH
	X99-0494-000		1	Senta, Choos-Recess, Fil
	X99-0582-000		1	SCREW, CROSS-RECESS, PH



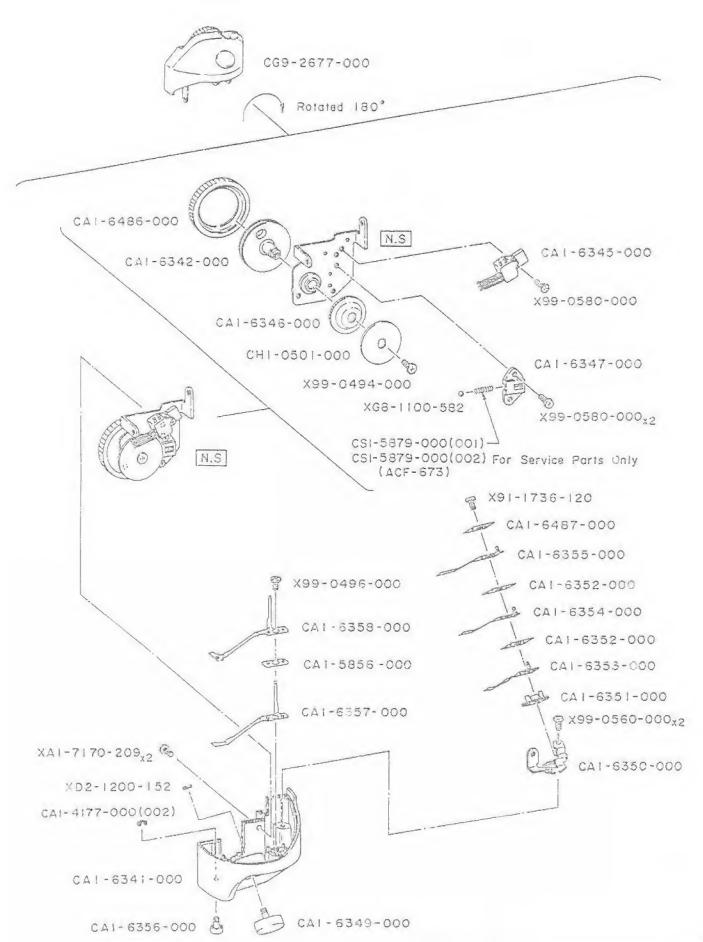
REF. NO. C12-1902

OILLI				
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-6329-080	Ξ	1	SWITCH PANEL
	CA1-6330-000	7		SUTTON, LCU OFF
	CA1-6334-000	7	1	KNOB, AS-ST CHANGE
	CA1-6335-000	E	î	BUTTON, AS-ST MODE
	CA1-8333-000	ed in to in the	1 1 1 1	SCREW, SHAFT
	CA1-6239-000	D	1	GRIP
	CA1-6340-000	3	1	COVER, GRIP
	CA1-6359-000	D & D	1 1 1 1	GRIP, PALM
	CA1-6360-000	E	1	BAR, PALM GRIP
	CA1-6414-000	2	1	HINGE, BACK COVER
	CA1-6496-000	<u> </u>	1	TAPE, GRIP
	CA1-6498-000	E	1	LUG, NECK STRAP
	CH2-5005-000	E D D	1	CONTACT, RUBBER
	CS1-5878-000	D	2	SPHING, COIL
	CS1-5963-000	27 28 ba	1 1 2 1	SPRING, COIL
	CS1-5984-000	3	1	SPRING, COIL
	CS1-6701-000	3 D	1	SPRING
	CY1-1230-069	D		PLATE, F. INDICATOR CLICK
	CY1-1231-000	D	1 1 3	PLATE, AS-ST CLICK
	XA1-7170-257		3	SCREW, CROSS-RECESS, PH
	XA4-8200-459		1	SCREW, CROSS-RECESS, PH
	XA4-8200-707		1 2 2 2	SCREW, CROSS-RECESS, FCH
	XG8-1100-571		2	BALL, STEEL
	X91-2024-890		2	SCREW, CROSS-RECESS, PH
	X99-0494-000		1	SCREW, CROSS-RECESS, PH
	X99-0570-000		2	SCREW, CROSS-RECESS, PH
	X99-0581-000		2	SCREW, CROSS-RECESS, PH



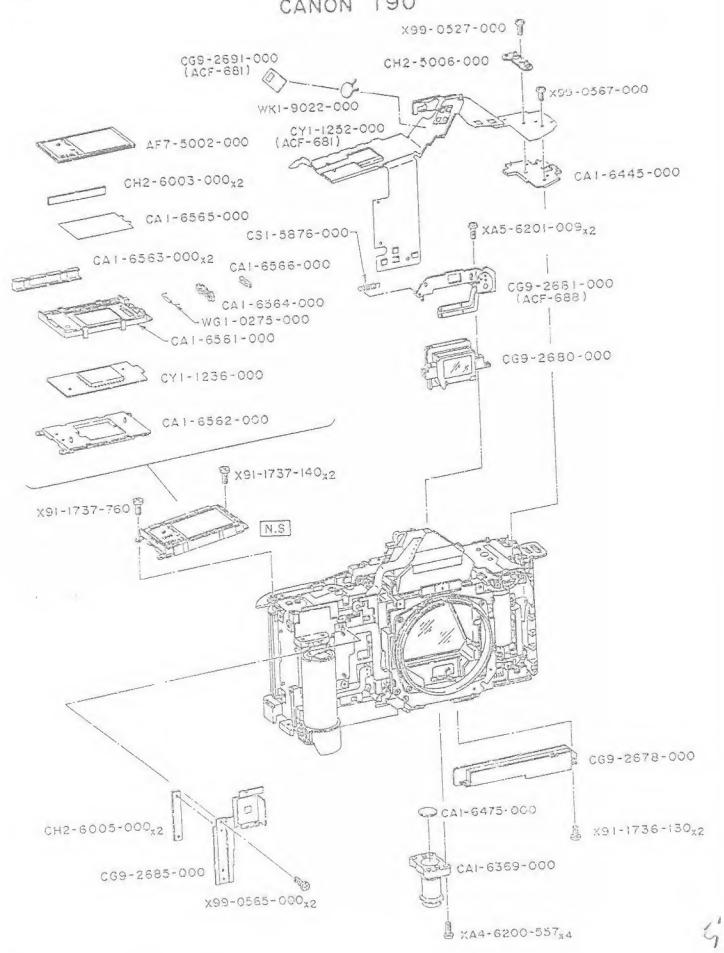
BACK COVER

NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-4156-000	D	1	GUIDE, FILM
	CA1-4158-GOO	D	1	ROLLER
	CA1-5074-000	E	1	SCREW. STOPPER
	CA1-5325-000	D	1	SHAFT, HINGE
	CA1-5522-000	E	1	CLAW, BACK COVER
	CA1-8523-000	E	1	HOLDER, FILM MAGAZINE
	CA1-S525-000	Ε	1	PLATE, SPRING
	CA1-6527-000	D	1	SHIELD, LIGHT
	CA1-6529-000	22	2	HOLDER, FILM ROLLER
	CFI-0423-000	D	1	PLATE, PRESSURE
	CG1-0852-000	D	1	BACK COVER UNIT
	CS1-5698-000	D	1	SPRING, COIL
	X93-0573-000		-2	SCREW, CROSS-RECESS, PH
	X99-0582-000		3	SCREW, CROSS-RECESS, PH



ELECTRONIC INPUT DIAL

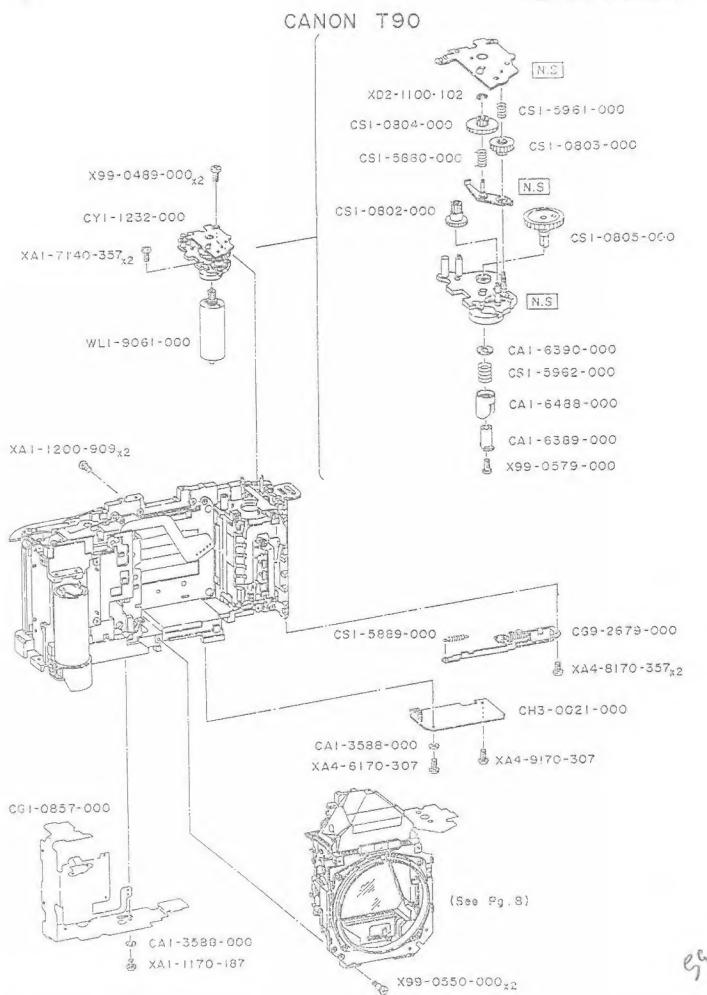
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	GA1-4177-000(002)	D	1	C RING
	CA1-5858-000	C	1	INSULATOR
	CA1-6341-000	D	ward ward	HEAD, DIAL
	CA1-5342-000	Ξ	1	DIAL, MODE CHANGE
	CA1-8345-000	D	1	CONTACT, DIAL
			*	control, bins
	CA1-6346-000	E E C	1	PLATE, CLICK
	CA1-8347-000	Ē	1	HOLDER, CLICK
	CA1-S349-000	C	1	BUTTON, RELEASE
	CA1-6350-000	E	1	BASEPLATE, RELEASE SW
	CA1-6351-000	E	year best park	BASE, RELEASE CONTACT
	CA1-6352-000	r		73/01/4 - 707
	CA1-6353-000	-	2 1	INSULATOR
	CA1-6354-000	03 00 00 00 00		CONTACT, RELEASE GND
		2	1	CONTACT, SW-1
	CA1-6355-000	C	1 1	CONTACT, SW-2
	CA1-6356-000	C	1	BUTTON, SPET
	CA1-6357-000	E	1	CONTACT, SPOT GND
	CA1-6358-000	E E D	and and and	CONTACT, SPOT
	CA1-8486-000	D	î	RING, DIAL
	CA1-6487-000	8	1	INSULATOR
	GG9-2677-000	D	1	RELEASE BUTTON/DIAL ASSY
			-	WETEVOE BOLLOW NIVE WOOL
	CH1-0501-000	Ε	1 1 1	BOARD, CONTACT
	CS1-5879-000(001)	D	1	SPRING, COIL
	CS1-5879-000(002)	D	1	SPRING, COIL
	XA1-7170-209		2	SCREW, CROSS-RECESS, PH
	XD2-1200-152		1	E RING
	XG8-1100-582		1	DALL GEORI
	X91-1736-120		1	BALL, STEEL
	X99-0494-000		1	SCREW, CROSS-RECESS, PH
	X39-0496-000		1 1 2	SCREW, CROSS-RECESS, PH
	X99-0550-000		1	SCREW. CROSS-RECESS, PH
	V39_0300_000		2	SCREW, CROSS-RECESS, PH
	X99-0580-000		3	SCREW, CROSS-RECESS, PH



REF. NO. C12-1902

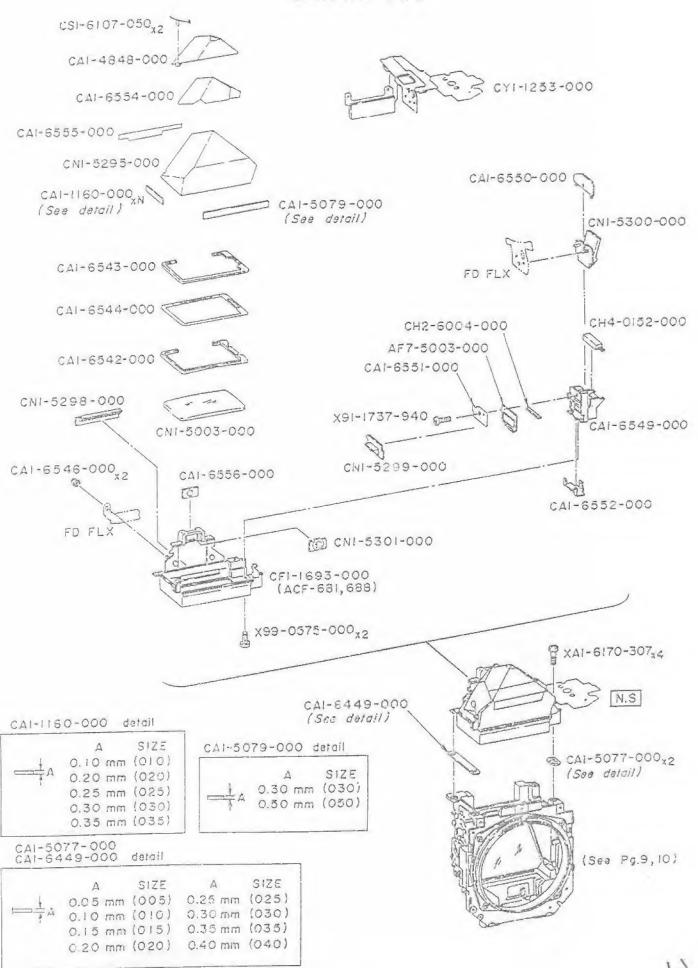
5 9 H T	3.1	TT. 18.	12.57	1 12 24
MAI	.74	7 1	X3.	LCD

314 FG 3	PEY, POD			
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	AF7-5002-000	Ē	1	LCD, EXTERNAL
	CA1-6369-000	Ē	1	SOCKET, TRIPOD
	CA1-8445-000	F	1	BASE, MODE SW
	CA1-6475-000	2	1	CAP, TRIPOD
		E E E	1	CASE, OLC
	CA1-6581-000	C.	1	GASE, OLG
	CA1-5562-000	E	1 2	BASEPLATE, OLC
	CA1-6563-000	E	2	HOLDER, OLC
	CA1-6584-000	E	1	CASE, OLC LAMP
	CA1-8585-000	E	1	REFLECTOR, OLC LIGHT
	CA1-8568-000	E	1	FRAME, OLC LIGHT
	0.11 0000 000		•	
	CG9-2678-000	D	1	MAIN STITCH ASSY
	CG9-2880-000	D	1	EYEPIECE
	CG9-2581-000	E	1	EYEPIECE SHUTTER ASSY
	CG9-2985-000	E	1	SELF-TIMER LED ASSY
	CG9-2691-000	Ē	ī	RESET FLEX ASSY
	P. C.	i.	1	nacel rous noor
	CH2-5006-000	D	1	SWITCH, MODE
	CH2-8003-000	E	2	CONNECTOR, OLC
	CH2-S005-000		2	CONNECTOR
	CS1-5876-000	F	1	SPRING, COIL
	CY1-1238-000	D E D	2 2 1	OLC PCB ASSY
	011-1230-000	U	1	000 100 1001
	CY1-1252-000	D	1	MAIN FLEX ASSY
	WG1-0275-000	U	1	LAMP, SMALL AXL-32
	WK1-9822-000	E	I	LI. BAT.
	XA4-6200-557		A.	SCREW, CROSS-RECESS, PH
	XA5-6201-009		2	SCREW, CROSS-RECESS, PH
	VII0 0002 000		_	
	X31-1736-130		2	SCREW, CROSS-RECESS, PH
	X91-1737-140		2	SCREW, CROSS-RECESS. PH
	X91-1737-760		Ī	SCREW, CROSS-RECESS, PH
	X99-0527-000		1	SCREW, CROSS-RECESS, PH
	X\$9-0565-000		2	SCREW, CROSS-RECESS, PH
	X99-0567-000		1	SCREW, CROSS-RECESS, PH
	V33_0201_000		A	SAMULT AMARO INCOME.



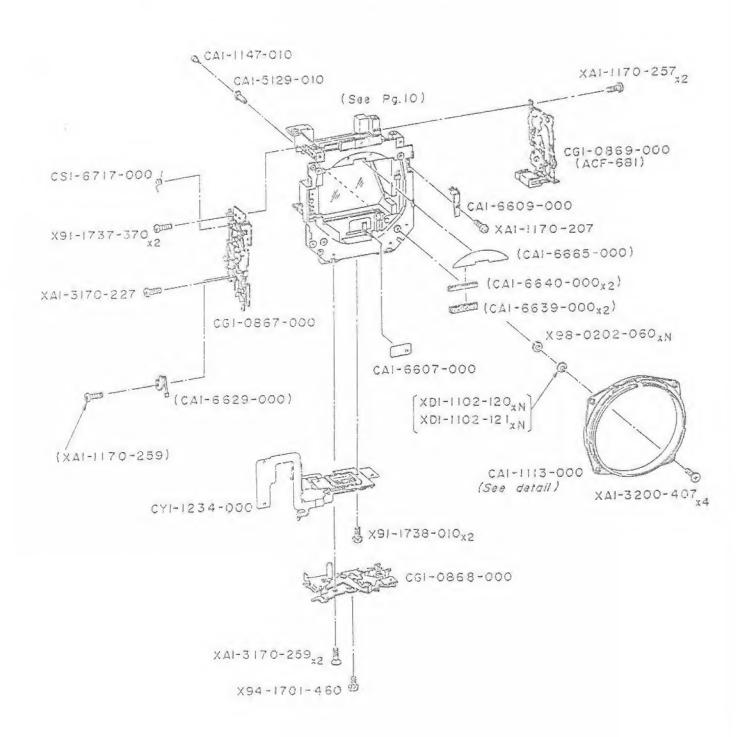
REWIND PARTS

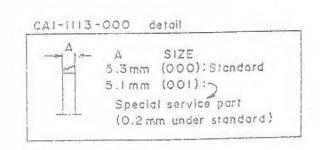
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-3588-000	D	2	WASHER
	CA1-6389-000	Ε	1	SHAFT, REWIND FORK
	CA1-8390-000	5	1	SPACER
	CA1-8488-000	D	1	FORK, REWIND
	CG1-0857-000	D	2 1 1 1	MOTOR FLEX ASSY
	CG9-2679-000	Ξ	1	STOP-DOWN MECH. ASSY
	CH3-0021-000	D	1	CONVERTER, DC/DC
	CS1-0802-000	E D S E E	1 1 1 1	GEAR, RW
	CS1-0803-000	E	1	GEAR, RW-S
	CS1-0804-000	Ε	1	GEAR, R#-P
	CS1-0805-000	D	1	GEAR, FORK
	CS1-5880-0C0	Ε	1	SPRING, COIL
	CS1-5889-000	E	1	SPRING, COIL
	CS1-5961-000	E	1	SPRING, COIL
	CS1-5962-000	E & &	1 1 1 1 1 1	SPRING, COIL
	CY1-1232-008	Ε	1	REWIND MECH. ASSY
	WL1-9081-000	D	1	MOTOR, REWINDING
	XA1-1170-187		1.	SCREW, CROSS-RECESS, PH
	XA1-1200-909		2	SCREW, CROSS-RECESS, PH
	XA1-7140-357		1 1 1 2 2	SCREW, CROSS-RECESS, PH
	XA4-8170-367		1	SCREW, CROSS-RECESS, PH
	XA4-8170-357		2	SCREW, CROSS-RECESS, FCH
	XA4-9170-307		1	SCREW, CROSS-RECESS, PH
	XD2-1100-102		1	E RING
	X99-0489-000		1 2 1 1 2	SCREW, CROSS-RECESS, PH
	X99-0550-000		2.	SCREW, SLOTTED, OFH
	X99-0579-000		1	SCREW, CROSS-RECESS, PH



PENTAPRISM UNIT

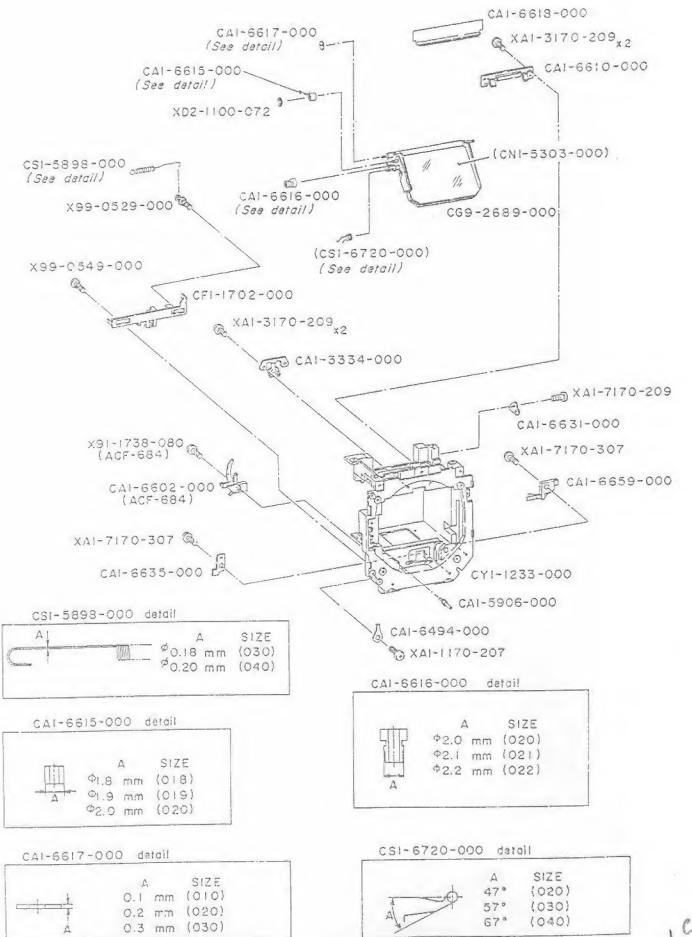
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	AF7-5003-000	Ξ	1	LCD, INTERNAL
	CA1-1160-000(XXX)		1	SPACER
	CA1-4848-000	EE	1	HOLDER, PENTAPRISM
	CA1-5077-000(XXX)	E	2	WASHER
	CA1-5079-000(XXX)	D	2	SPACER
		-	-	0.11021
	CA1-6449-000(XXX)	E	1	WASHER, ADJUSTING
	CA1-6542-000	Ξ	1	HOLDER, CONDENSER LENS
	CA1-6543-000	E	1	SPACER, PENTAPRISM
	CA1-6544-000	E	1	MASK, FINDER
	GA1-6548-009	E	1 2	NUT
	CA1-6549-000	F	1	BASE, ILC
	CA1-8550-000	F	1	HOLDER, LIGHT GUIDE
	CA1-6551-000	Tr.	1 1 1	HOLDER, ILC
	CA1-6552-000	E E	1	HOLDER, F. INFORMATION PRISM
	CA1-6554-000	E	1	
	OWT-0104-000	G	1	COVER, PENTAPRISM
	CA1-8555-000	E	1	SHIELD, LIGHT
	CA1-8558-000	E	I	PANEL, DIFFUSION
	CF1-1693-000	E	1	BOX, PENTAPRISM
	CH2-5004-000	D	1	CONNECTOR
	CH4-0152-000	D	1	LED LS007C
	GH1-5000-000	D	1	LENS, CONDENSER
	GN1-5295-000	D	1	PENTAPRISM
	CN1-5298-000	rj	1	PRISM, LED INFORMATION
	CN1-5299-000	D	1	PRISM, ILC INFORMATION
	CN1-5300-000	E	1 1 1 1 1	PRISM, LIGHT GUIDE
	3/12/14/14/14/14/14/14/14/14/14/14/14/14/14/		*	Children Didie Gosbie
	CN1-5301-900	E	1	LENS, PARTIAL METERING
	CS1-8107-050	E	2	SPRING
	CYI-1253-000	D	1	FINDER FLEX ASSY
	XA1-6170-307		4	SCREW, CROSS-RECESS, PH
	X91-1737-940		1	SCREW, CROSS-REJESS, PH
			-	
	X99-0575-000		2	SCREW, CROSS-RECESS, PH
				,





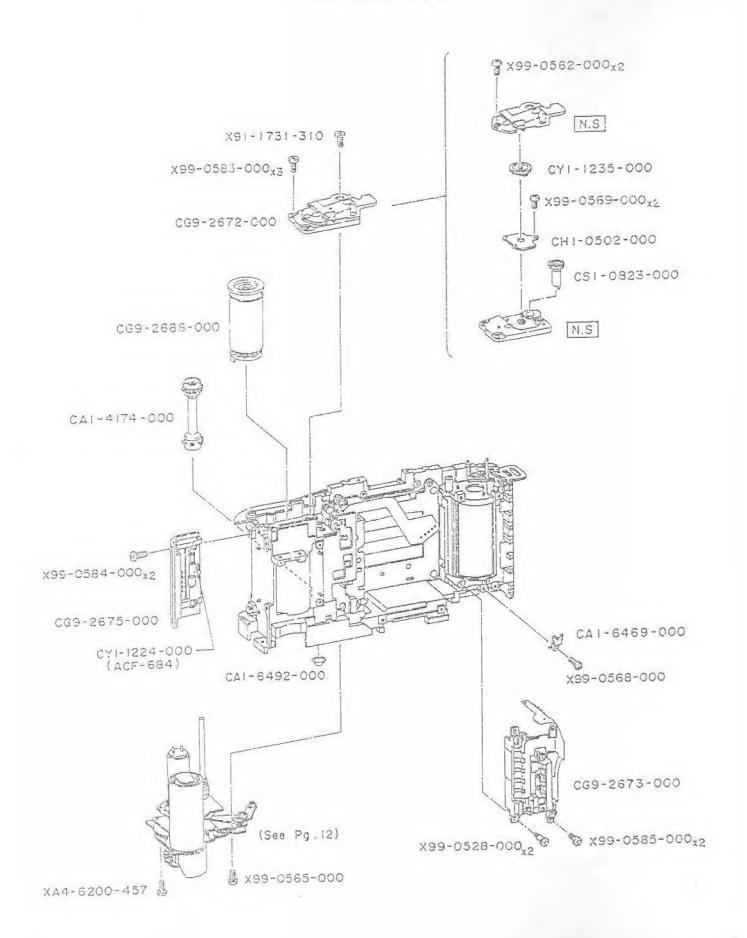
MIRROR BOX I

NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-1113-000(XXX)	D	1	BODY MOUNT
	CA1-1147-010	D	1	SCREW, MAX. APERTURE CORRECTION
	CA1-5129-010	Ð	1	PIN, MAX. APERTURE CORRECTION
	GA1-6307-000	D C	1	PLATE, INDICATOR
	GA1-6609-000	E	1	GUARD, AE BRUSH
	CA1-8829-000	D	1	CONTACT, MIRROR UP-DOWN
	CA1-8839-000	D	2	CUSHION
	CA1-8840-000	E	1 2 2 1	CUSHION
	CA1-6585-000	D	1	SHIELD, LIGHT
	CG1-0867-000	D	1	MIRROR MECHANISM UNIT
	CG1-0868-000	D	1	AUTO DIAPHRAGM UNIT
	CG1-0369-000	D	1	AE UNIT
	GS1-8717-000	D E E	1	SPRING
	CY1-1234-000	E	1	DTTL/SPOT FLEX ASSY
	XA1-1170-207		1	SCREW, CROSS-RECESS, PH
	XA1-1170-257		2	SCREW, CROSS-RECESS, PH
	XA1-1170-259		2 1 2 4	SCREW, CROSS-RECESS, PH
	XA1-3170-227		1	SCREW, CROSS-RECESS, FCH
	XA1-3170-259		2	SCREW, CROSS-RECESS, FCH
	XA1-3200-407		£4.	SCREW, CROSS-RECESS, FCH
	XD1-1102-120		1	WASHER
	XD1-1102-121		1 1 2	WASHER
	X91-1737-379		2.	SCREW, CROSS-RECESS, PH
	X91-1738-010		2.	SCREW, CROSS-RECESS, PH
	X94-1701-460		1	SCRE, SLOTTED, FCH
	X98-0202-050		1	WASHER



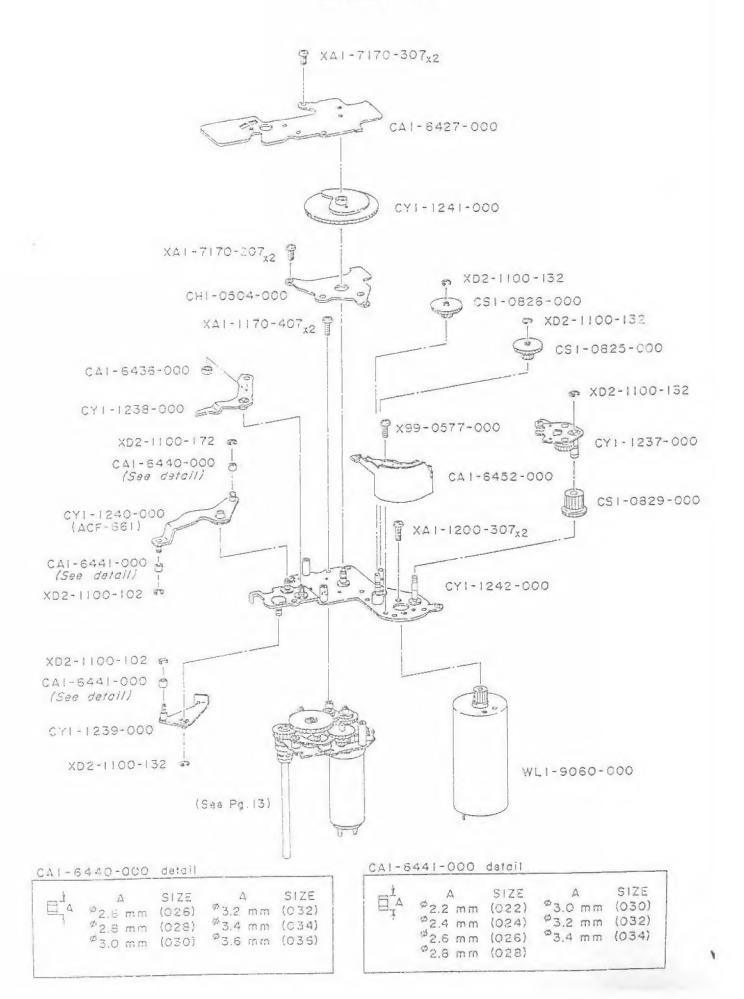
MIRROR BOX II

NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-3334-000	C	1	CATCH, FOCUSING SCREEN
	CA1-5908-000	E 12 12 12 12	1 1 1	PIN, A.M.
	CA1-6494-000	Ε	1	LUG
	CAL-5502-000	Ξ	1	CONTACT, A-M CHANGE
	CA1-3610-000	Ξ	1	BRACKET, FOCUSING SCREEN
	CA1-8815-000(XXX)	Е	1	COLLAR
	CA1-6516-000(XXX)	स स्त्र का स्त्र स	1	COLLAR, ADJUSTING
	CA1-SS17-000(XXX)	E	1	WASHER
	CAI-6618-000	2	1	SHIELD, LIGHT
	CA1-5631-000	Ε	.1	PLATE, MIRROR POSITIONING
	CA1-6835-000	Ε	1	GUIDE, SW POSITIONING
	CA1-6659-000	Ξ	1	CONTACT, STOP-DOWN METERING
	CF1-1702-000	Ε	1	LEVER, STOP-DOWN METERING
	GG9-2689-000	E E	1	MIRROR ASSY
	CN1-5303-000	D	1	MIRROR
	CS1-5898-000(XXX)	Ε	1	SPRING
	CS1-5720-000(XXX)	E E	1	SPRING
	CY1-1233-000	E	1	PANEL, FRONT
	XA1-1170-207		1	SCREW, CROSS-RECESS, PH
	XA1-3170-209		4	SCREW, CROSS-RECESS, FCH
	XA1-7170-209		1	SCREW, CROSS-RECESS, PH
	XA1-7170-307		1 3	SCREW, CROSS-RECESS, PH
	XD2-1100-072		1	E RING
	X91-1738-080		1	SCREW, CROSS-RECESS, PH
	X99-0529-000		1	SCREW, SLOTTED, SHOULDER
	X99-0549-000		1	SCREW, SLOTTED, SHOULDER



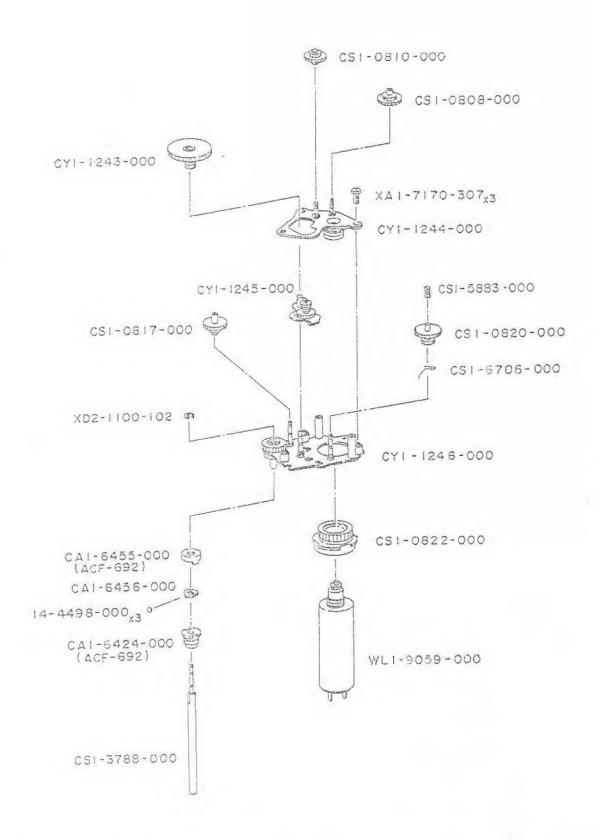
SPOOL, SPROCKET

MEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-4174-000	Ĉ	1	SPROCKET
	CA1-6469-900	g	1	CONTACT, FILM MAGAZINE
	CA1-6492-000	D	1	WASHER
	CG9-2672-000	D	1	MOTOR SIGNAL BASE ASSY
	CG9-2673-000	Ð	1	DX SENSOR ASSY
	CG9-2675-000	Ŋ	1	ROLLER HOLDER ASSY
	009-2686-000	Ð 8	1	SPOOL ASSY
	CH1-3502-000		1	BOARD, CONTACT
	CS1-0823-000	F2 62 5E	1	GEAR. SPROCKET
	CY1-1224-000	E	1	SPRING, AL COVER (2)
	CY1-1235-000	E	1	GEAR, MOTOR SIGNAL
	XA4-8200-457	1.	1	SCREW, CROSS-RECESS, PH
	X91-1731-310		1	SCREW, CROSS-RECESS, PH
	X99-0528-000		2	SCREW, GROSS-RECESS, SHOULDER
	X99-0562-000		2 2	SCREW, CROSS-RECESS, PH
	X99-0585-000		1	SCREW, CROSS-RECESS, PH
	X99-0568-000		1	SCREW, CROSS-RECESS, PH
	X99-0569-000		2	SCREW, CROSS-RECESS, PH
	X99-0583-000		3	SCREW, CROSS-RECESS, PH
	X99-0534-000		2 3 2	SCREW, CROSS-RECESS. PH
	X99-0385-000		2	SCREW, CROSS-RECESS, PH



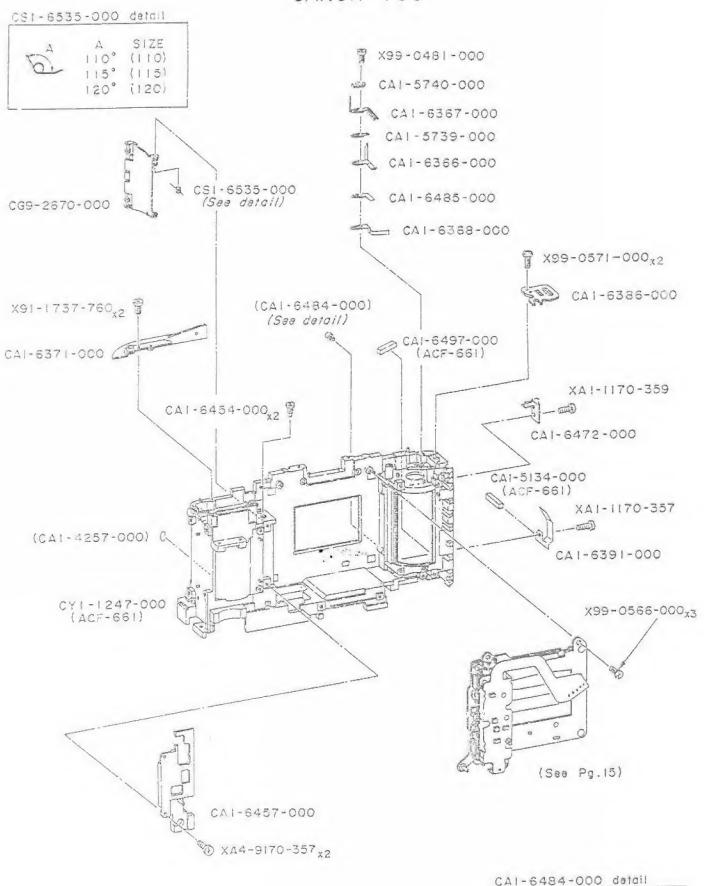
DRIVE UNIT I

NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CAI-8427-000	E	1	PLATE
	GA1-S436-000	E	1	BEARING, BALL
	CA1-5440-000(XXX)	D	1	COLLAR, ADJUSTING
	CA1-6441-000(XXX)	D	1 2 1	COLLAR, ADUJSTING
	CA1-6452-000	E	1	GUIDE, WIRE
	CH1-0504-000	E	1	BOARD, CONTACT
	CS1-0825-000		1	GEAR, CHARGE-1
	CS1-0826-900	E E	1	GEAR, CHARGE-2
	CS1-0829-000	Ε	1	GEAR, SUN
	CY1-1237-000	E	1	PLANETARY GEAR ASSY
	CY1-1238-000	E	1	LEVER, SHUTTER CHARGE-1
	GY1-1239-000	E	1	LEVER, SHUTTER CHARGE-2
	CY1-1240-000	E	1	LEVER, FRONT PANEL CHARGE
	CY1-1241-000	2	1	GEAR, CHARGE CAM
	CY1-1242-000	\mathbb{E}	1	BASEPLATE, CHARGE MECH.
	WL1-9060-000	D	1	MOTOR, CHARGE
	XA1-1170-407		2	SCREW, CROSS-RECESS, PH
	XA1-1200-307		1 2 2 2	SCREW, CROSS-RECESS, PH
	XA1-7170-207		2	SCREW, CROSS-RECESS, PH
	XA1-7170-307		2	SCREW, CROSS-RECESS, PH
	XD2-1100-102		2 4	E RING
	XD2-1100-132		4	E RING
	XD2-1100-172		1	E RING
	X99-0577-000		1	SCREW, CROSS-RECESS. PH



DRIVE UNIT II

NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	14-4498-000	C	3	BALL, STEEL
	CA1-8424-000	C E E E E E	1	CLUTCH, ONE WAY
	CAI-\$455-000	3	1	CAP, ONE WAY CLUTCH
	CA1-8456-000	Ξ	1	CAM, ONE WAY
	CS1-0808-000	E	1	GEAR, WINDING-2
	CS1-0810-009	To a	1	GEAR, WINDING-3
	CS1-0817-000		1	GEAR, WINDING-7
	CS1-0820-000	E	1	GEAR, WINDING-9
	CS1-0822-000	E E	Ī	GEAR, WINDING-10
	CS1-3788-000	E	1	SHAFT, SPROCKET
	GS1-5883-000	3	1	SPRING, COIL
	CS1-8705-000	F. C. 33 C. 23	1	SPRING
	CY1-1243-000	E	I	GEAR, WINDING-4
	CY1-1244-000	E	1	BASEPLATE, INTERMEDIATE
	GY1-1245-000	£	1	PLANETARY GEAR ASSY
	GY1-1245-000	E	1	BASEPLATE, WINDING MECH.
	WL1-9059-000	E	1	MOTOR, WINDING
	XA1-7170-307		3	SCREW, CROSS-RECESS, PH
	XD2-1100-102		1	E RING



A SIZE

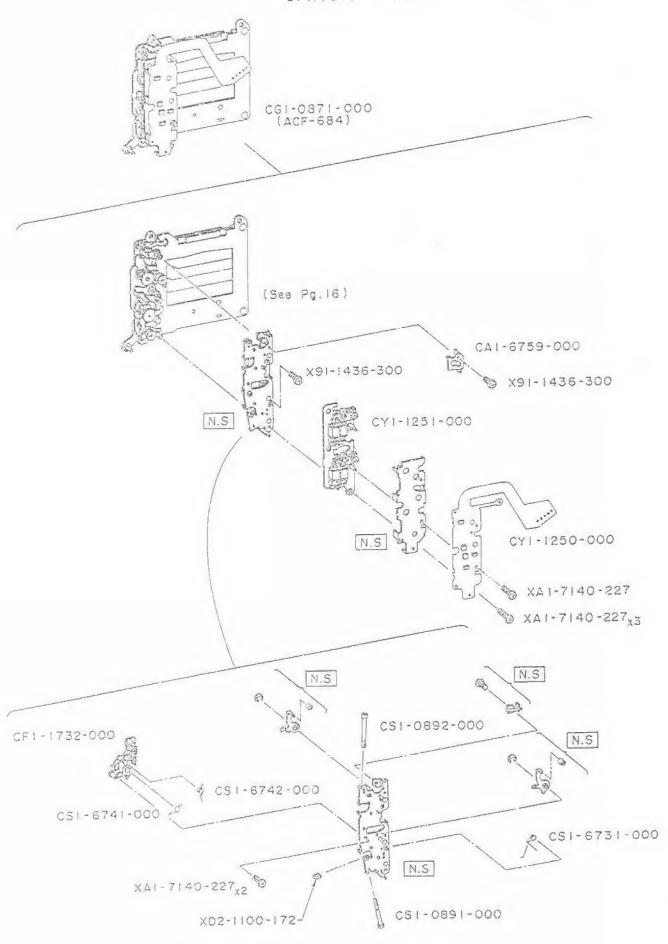
A 2.4 mm (024)

2.5 mm (025)

2.6 mm (026)

BODY PARTS. MINOR

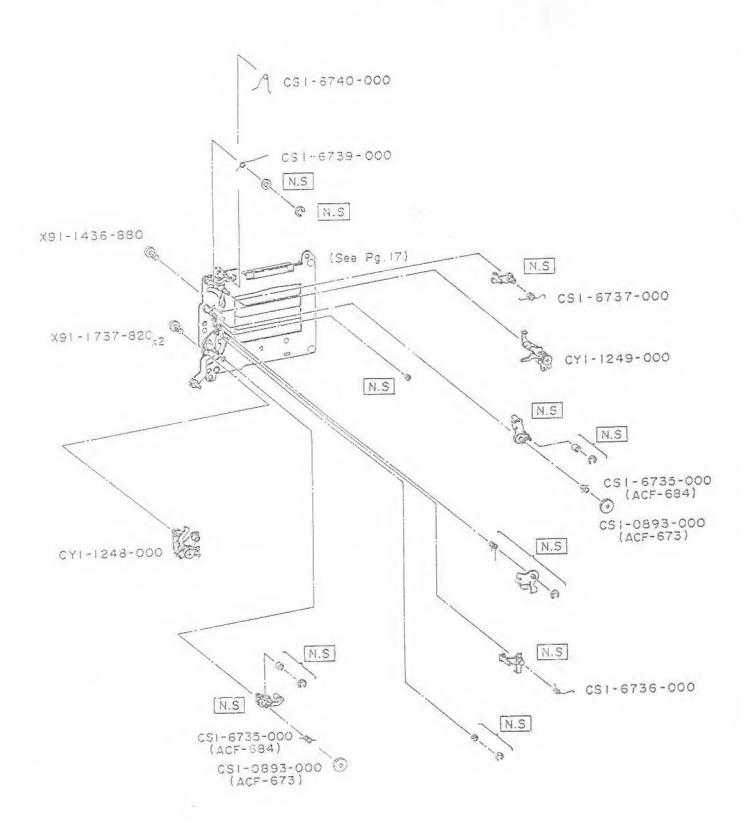
METER	PARTS NO.	CLASS	YTO	DESCRIPTION
NEG			411	
	CA1-4257-000	D	1	SEAL, FILM
	CA1-S134-000	E	1	LIGHT SHIELD
	CA1-5739-000	D	1	INSULATOR
	CA1-5740-000	D	1	SPACER
	CAI-6365-000	D	I	CONTAGT, BACK COVER
	CA1-6357-000	D	1	CONTACT (GND), BACK COVER
	CA1-6363-000	E	1	PLATE, SAFETY LOCK
	CA1-6371-G00	Ε	1	COVER
	CA1-6385-000	E	1	LUG, NECK STRAP
	CA1-8391-000	E E E E	1	SPRING, PLATE
	CA1-8454-COO	E	2	SCREW, AL COVER SHAFT
	CAI-9457-000	Ē	2	SPACER, FLEX
	CAI-6472-000	E	1	STABILIZER, CARTRIDGE
	CA1-8484-000(XXX)	E	1	SHAFT, FILM GUIDE
		E	†	INSULATOR
	CAI-6485-000	£	I	INGUENTOR
	CA1-5497-000	E	1	LIGHT SHIELD
	CG9-2570-000	E 0 E 2	1	AL COVER ASSY
	CS1-8535-000(XXX)	E	1	SPRING
	CY1-12-17-000	E	1	BODY
	XA1-1170-357		1	SCREW, CROSS-RECESS, PH
	XA1-1170-359		î	SCREW. CROSS-RECESS, PH
	XA4-9170-357		2	SCREW, CROSS-RECESS, PH
	X91-1737-750		2	SCREW, CROSS-RECESS, PH
	110 1 0		1 2 2 1	SCREW, CROSS-RECESS, PH
	X09-0481-000		3	SCREW, CROSS-RECESS, PH
	X99-0566-000		J	Ponta, onodo neoso, in
	X99-0571-000		3	SCREW, CROSS-RECESS, PH





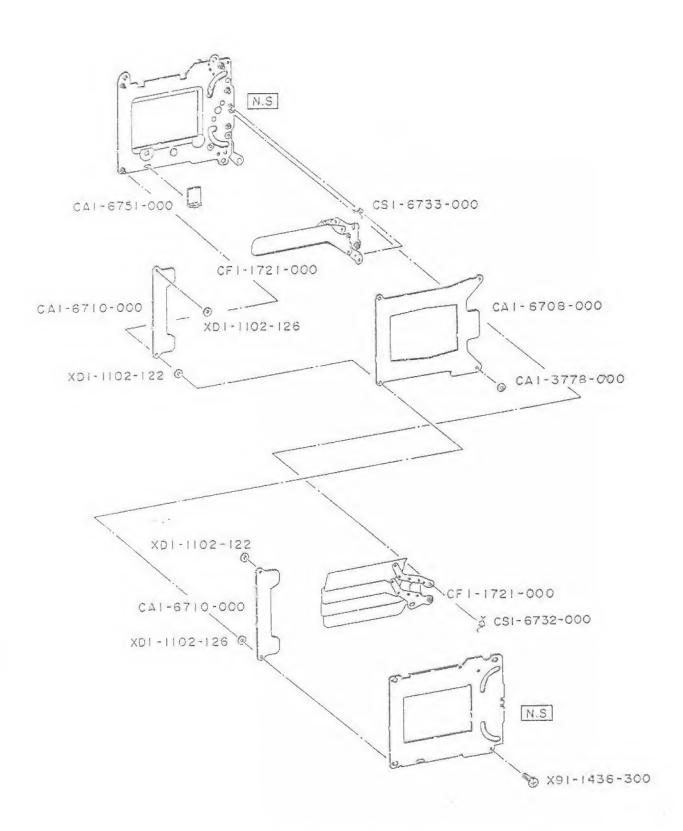
SHUTTER UNIT I

MEN	PARTS NO.	CLASS	ÇTY	DESCRIPTION
	CA1-8759-000	Ξ	1	SHIELD, LIGHT
	CF1-1732-000	D	1	BASE, X CONTACT
	CG1-0871-000	D	Ī	SHUTTER UNIT
	CS1-0891-009	E	1	SHAFT, IST CURTAIN WORM
	CS1-0892-000	E	1	SHAFT, 2ND CURTAIN WORM
	CS1-8731-000	ra ia lu	1	SPRING
	CSI-6741-000	7	1	SPRING
	CS1-8742-000	E	1	SPRING
	CY1-1250-000	[:	1	SHUTTER FLEX ASSY
	CY1-1251-000	E.	1	SHUTTER MAGNET ASSY
	XA1-7140-227		Ü	SCREW, CROSS-RECESS, PH
	XD2-1100-172		1	E RING
	X91-1436-300		2	SCREW, CROSS-RECESS, PH



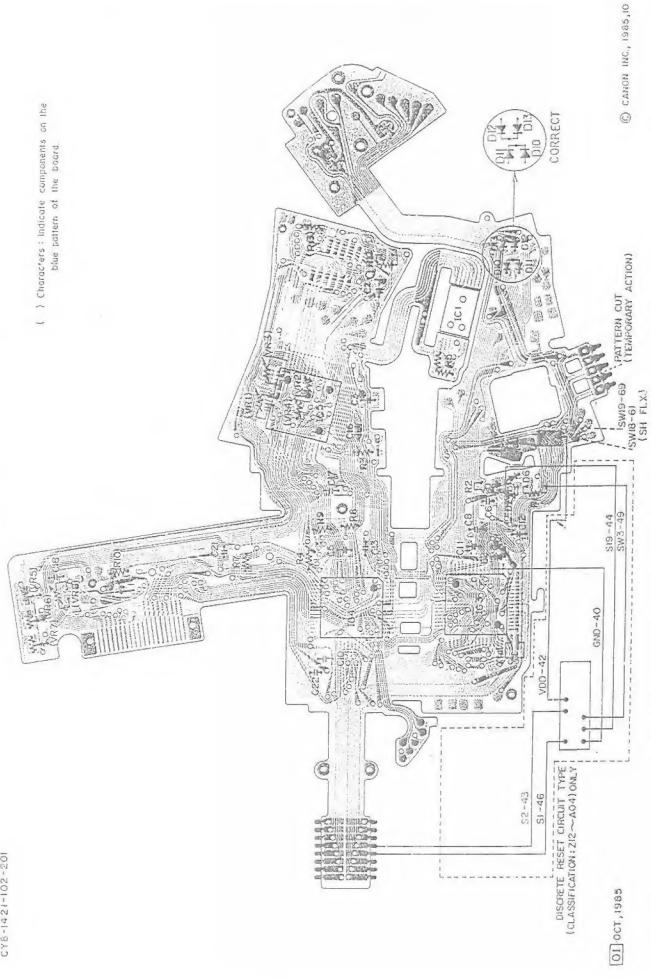
SHUTTER UNIT II

NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CS1-0893-000	Ε	2	GEAR
	CS1-6735-000	E	2	SPRING
	CS1-5736-000	3	1	SPRING
	CS1-5737-000	E	1	SPRING
	CS1-6739-000	Ē	1	SPRING
	CS1-5740-000	Ξ	1	SPRING
	CY1-1248-000	D	1	1ST CURTAIN BRAKE ASSY
	CY1-1249-000	D	1	2ND CURTAIN BRAKE ASSY
	K91-1435-880		1	SCREW. CROSS-RECESS, PH
	X91-1737-820		2	SCREW. CROSS-RECESS, PH

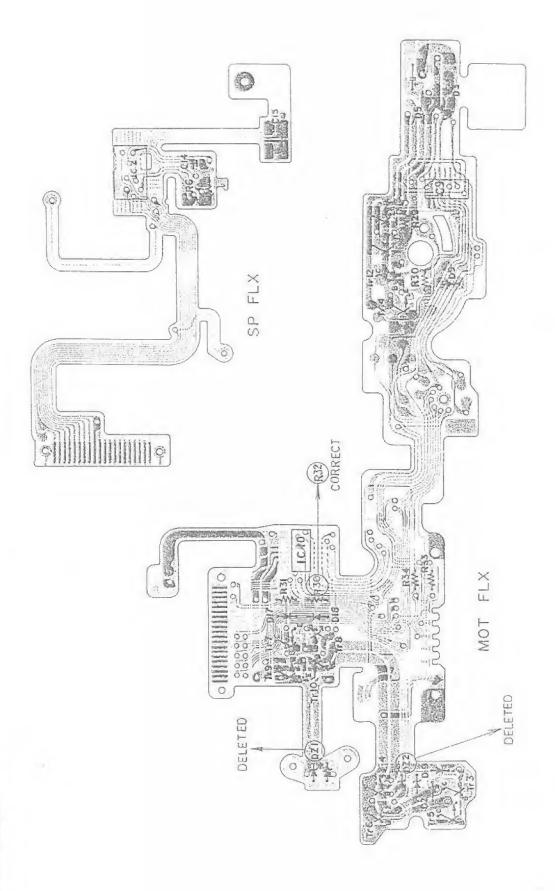


SHUTTER UNIT 111

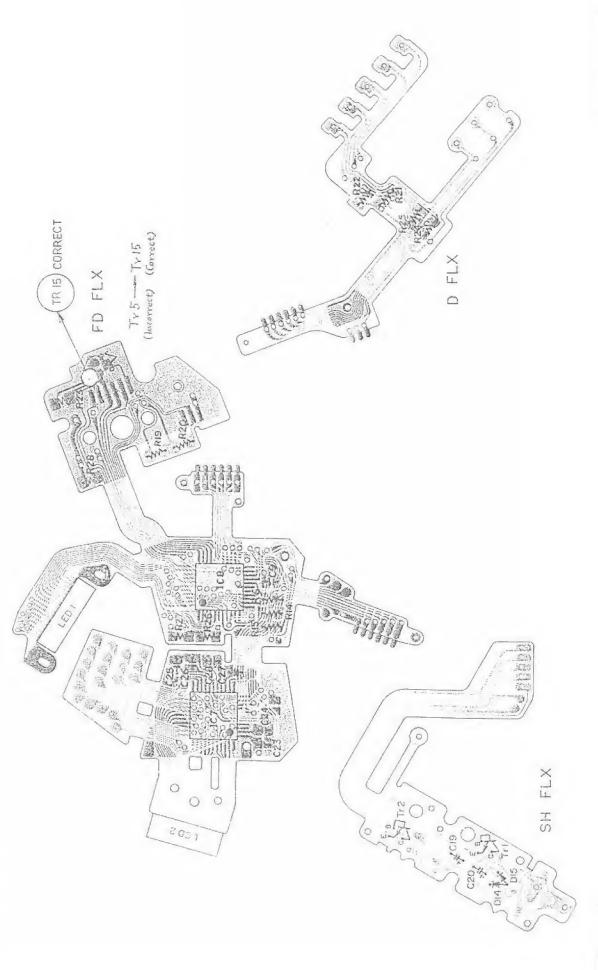
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION
	CA1-3778-000	E	1	RUBBER, STOPPER-A
	CA1-6708-000	Ξ	1	PLATE, SEPARATOR
	CA1-8710-000	Ε	2	SPACER
	CA1-6751-000	1.	1	DAMPER, SHUTTER CURTAIN
	CF1-1721-000	C	2	CURTAIN, SHUTTER
	CS1-6732-000	Ε	1	SPRING
	CS1-6733-000	E	1	SPRING
	XD1-1102-122		2	WASHER
	XD1-1102-126		2	WASHER
	X91-1436-300		1	SCREW, CROSS-RECESS, PH

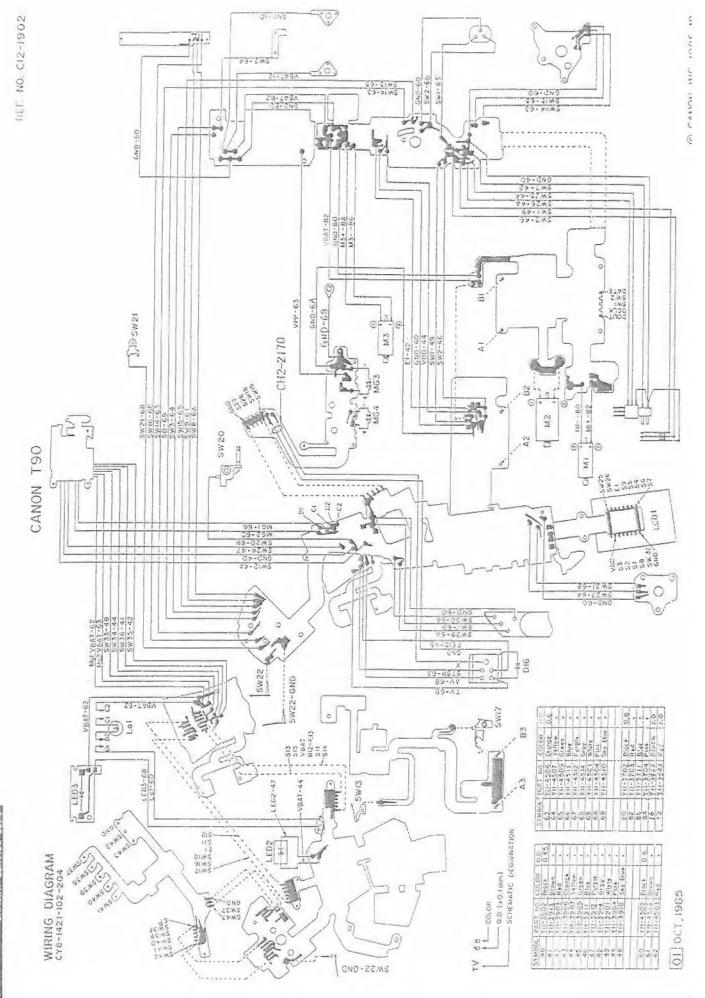


PCB DIAGRAM (MOT, SP FLX) CY8-1421-102-203



PCB DIAGRAM (FD, SH, D FLX) CY8-1421-102-202





REF. NO. C12-1902

ELECTRIC PARTS & LEADS

101,110001				
SYMBOL	PARTS NO.	CLASS	QTY DESCRIPTION	REMARKS
DC/DC	CH3-0021-000	D	CONVERTER, DC/DC	
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6	CH4-D161-000 CH4-D153-000 CH4-D155-000 CH4-D154-000	0	1C 1C 1C 1C 1C	T2890A T8123 T7488A T1687 M50753-955FP T7487
1G 7 IG 8 IG 9 IC 10	CH4-0157-000 CH4-0158-000 CH4-0159-000 CH4-0159-000	m m m m	1 C 1 C 1 C	T7485 T1686 T8120 T8120
La I	WG1-0275-000	D	LAMP	AXL-32
LCD 1 LCD 2	AF7-5002-000 AF7-5003-000	E	LCD, EXTERNAL LCD, INXTERNAL	
LED 1 LED 2	CH4-0152-000	D	LED	LS0076
LED 3	WG!-0276-000	0	LED	LNOIZDICAL
M 1 M 2 M 3	WL1-9059-000 WL1-9050-000 WL1-9061-000	D D	MOTOR MOTOR MOTOR	DCSV, 2.3W DCSV, 4.3W DCSV, 2.3W
R5, 6	VR5-0140-432 VR5-0140-472 VR5-0140-512 VR5-0140-622 VR5-0140-682 VR5-0140-752 VR5-0140-012 VR5-0140-103 VR5-0140-113 VR5-0140-123 VR5-0140-153 VR5-0140-183 VR5-0140-223 VR5-0140-223 VR5-0140-333 VR5-0140-333 VR5-0140-563 VR5-0140-104	***************************************	RESISTOR	4.3 KOHM. 1/8W 4.7 KOHM. 1/8W 5.1 KOHM. 1/8W 5.6 KOHM. 1/8W 6.2 KOHM. 1/8W 6.8 KOHM. 1/8W 7.5 KOHM. 1/8W 8.2 KOHM. 1/8W 9.1 KOHM. 1/8W 10.0 KOHM. 1/8W 11.0 KOHM. 1/8W 12.0 KOHM. 1/8W 15.0 KOHM. 1/8W 15.0 KOHM. 1/8W 15.0 KOHM. 1/8W 15.0 KOHM. 1/8W 16.0 KOHM. 1/8W 18.0 KOHM. 1/8W
87	VR5-0134-121 VR5-0134-221 VR5-0134-321 VR5-0134-421 VR5-0134-641 VR5-0134-641 VR5-0134-871 VR5-0134-991 VR5-0135-111 VR5-0135-231 VR5-0135-361 VR5-0135-621	स क्षित्तर स स स स स स स स स स स स	RESISTOR	4.12 KOIM, 1/8W 4.22 KOIM, 1/8W 4.32 KOIM, 1/8W 4.42 KOIM, 1/8W 4.53 KOIM, 1/8W 4.64 KOIM, 1/8W 4.75 KOIM, 1/8W 4.87 KOIM, 1/8W 5.11 KOIM, 1/8W 5.23 KOIM, 1/8W 5.35 KOIM, 1/8W 5.49 KOIM, 1/8W 5.62 KOIM, 1/8W



REF. NO. C12-1902

ELECTRIC PARTS & LEADS

SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
	VR5-0135-761 VR5-0135-901	Ē		RESISTOR RESISTOR	5.75 KORM, 1/8W 5.90 KORM, 1/8W
118	VR5-0131-300 VR5-0131-950 VR5-0132-510 VR5-0133-240 VR5-0133-220 VR5-0135-230 VR5-0135-230 VR5-0135-900 VR5-0137-150 VR5-0137-150 VR5-0137-070 VR5-0138-450 VR5-0138-090 VR5-0131-051 VR5-0131-101 VR5-0131-181 VR5-0131-241 VR5-0131-301	어 여 대 의 함 보기 때 어 가 들이 된 안 되 함 된 함 된 함 된 된 된		RESISTOR	130 OHM, 1/8W 196 OHM, 1/8W 251 OHM, 1/8W 251 OHM, 1/8W 324 OHM, 1/8W 392 OHM, 1/8W 453 OHM, 1/8W 523 OHM, 1/8W 590 OHM, 1/8W 715 OHM, 1/8W 715 OHM, 1/8W 787 OHM, 1/8W 845 OHM, 1/8W 976 OHM, 1/8W 1.05 KOHM, 1/8W 1.18 KOHM, 1/8W 1.18 KOHM, 1/8W 1.18 KOHM, 1/8W 1.24 KOHM, 1/8W
R10	VR5-0131-242 VR5-0131-302 VR5-0131-372 VR5-0131-402 VR5-0131-472 VR5-0131-502 VR5-0131-502 VR5-0131-542 VR5-0131-542 VR5-0131-582 VR5-0131-652 VR5-0131-652 VR5-0131-742 VR5-0131-742 VR5-0131-782 VR5-0131-782 VR5-0131-782 VR5-0131-782 VR5-0131-782 VR5-0131-822 VR5-0131-822 VR5-0131-822 VR5-0131-822 VR5-0131-822 VR5-0131-822 VR5-0131-822 VR5-0131-822	经有法律证证证证证证证证证证证证证证证证		RESISTOR	12.4 KOHM, 1/8W 12.7 KOHM, 1/8W 13.0 KOHM, 1/8W 13.3 KOHM, 1/8W 13.7 KOHM, 1/8W 14.0 KOHM, 1/8W 14.0 KOHM, 1/8W 14.7 KOHM, 1/8W 15.0 KOHM, 1/8W 15.4 KOHM, 1/8W 15.8 KOHM, 1/8W 15.8 KOHM, 1/8W 16.2 KOHM, 1/8W 16.5 KOHM, 1/8W 16.5 KOHM, 1/8W 17.4 KOHM, 1/8W 17.8 KOHM, 1/8W 17.8 KOHM, 1/8W 18.2 KOHM, 1/8W 18.2 KOHM, 1/8W 18.7 KOHM, 1/8W 18.7 KOHM, 1/8W 19.6 KOHM, 1/8W
R12	VRS-1070-513	ε		RESISTOR	51.0 KOHM, 1/16W
R13	VR5-0136-041 VR5-0136-191 VR5-0136-341 VR5-0136-651 VR5-0136-611 VR5-0136-981 VR5-0137-151 VR5-0137-321 VR5-0137-501 VR5-0137-681 VR5-0137-681 VR5-0137-681 VR5-0137-681	ក្នុកាលខាតាមានាធានាមាន		RESISTOR	5.04 KOHM, 1/8W 6.19 KOHM, 1/8W 6.34 KOHM, 1/8W 6.49 KOHM, 1/8W 6.65 KOHM, 1/8W 6.65 KOHM, 1/8W 7.15 KOHM, 1/8W 7.15 KOHM, 1/8W 7.32 KUHM, 1/8W 7.50 KOHM, 1/8W 7.68 KOHM, 1/8W 7.68 KOHM, 1/8W 8.06 KOHM, 1/8W

REF. NO. C12-1902

ELECTRIC PARTS & LEADS

6020111	In Lunio & reves				
SYMBOL	PARTS NO.	CLASS	QTY		REMARKS
	VRS-0138-251 VRS-0138-451 VRS-0138-661 VRS-0138-871 VRS-0139-031 VRS-0139-311 VRS-0139-531 VRS-0139-761			RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	8.25 KOHM, 1/8W 8.45 KOHM, 1/8W 8.86 KOHM, 1/8W 8.87 KOHM, 1/8W 9.09 KOHM, 1/8W 9.31 KOHM, 1/8W 9.53 KOHM, 1/8W 9.76 KOHM, 1/8W
R35		E		THERMISTOR	1,111 121 1121/000
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